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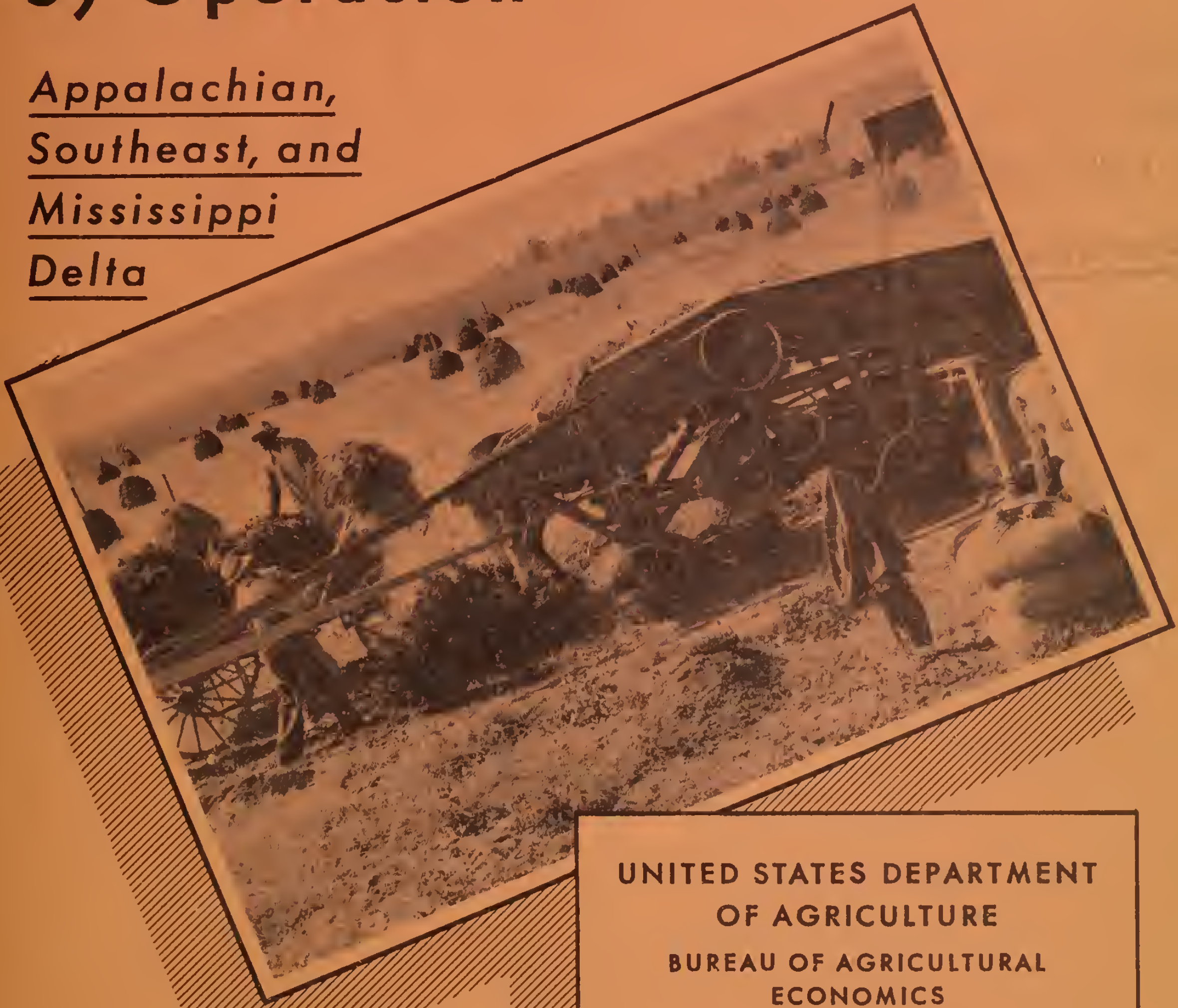
CROP PRODUCTION PRACTICES

Labor, Power, and Materials, by Operation

Appalachian,
Southeast, and
Mississippi
Delta



UNITED STATES DEPARTMENT
OF AGRICULTURE
BUREAU OF AGRICULTURAL
ECONOMICS
WASHINGTON, D. C.
May 1953

The following individuals on the staff of the Bureau of Agricultural Economics planned and directed the field surveys whereby the data released herein were obtained, and were responsible for summarizing and assembling the data: Wylie D. Goodsell, W. Herbert Brown, Herbert C. Fowler, I. Keith Harrison, Erling Hole, Edgar B. Hurd, Isabel Jenkins, S. W. Mendum, Stanley J. Provost, Christian A. Stokstad, and James Vermeer.

CROP PRODUCTION PRACTICES
Labor, Power and Materials, by Operation

Section 3 - Appalachian, Southeast and Mississippi Delta

This publication presents information concerning production practices, man labor, power, machinery, and material requirements for several important crops in specified type-of-farming areas in the Appalachian, Southeast, and Mississippi Delta.

The information presented for each crop in each type-of-farming area was obtained from approximately 30 to 90 farmers through personal interviews. Field surveys were made in 1950, 1951, and 1952. For the most part, information obtained was for the crop last harvested. As a result, data in the various sections of this publication cover specified crops harvested in 1949 through 1952. Surveys have been made for crops in other areas. Some of the information relating to these crops has been published and the remainder is to be released as rapidly as it can be summarized.

Additional surveys are already planned. Some of these will cover additional areas and probably some different crops. Also, it is planned to repeat surveys in many of these areas to keep current as to changing practices and methods of production.

Farms included in the survey were selected through accepted random sampling methods from those growing the crops on a commercial basis in the specified area. In some instances, production of a particular crop was confined to a comparatively small area or to a number of small areas. Sometimes a crop was grown by practically all farmers in the type-of-farming area. In each instance, an attempt was made to obtain a cross-section of the commercial producers in the type-of-farming area.

Although the number of farms surveyed for each crop does not appear to be large in most cases, enough farms were surveyed so that reasonably stable averages for the common and important items were obtained. It was practically impossible to obtain statistically reliable estimates for many items on crops for which practices varied widely. This was particularly true when new practices and materials had been recently introduced, and had not as yet been adopted by many producers.

For example, in some areas the use of commercial fertilizers has been a standard practice for many years in the production of some crops. However, use of fertilizers in production of other crops in certain areas is still in the experimental stage, and the number of farmers using fertilizers and the kinds and amounts of fertilizer used vary widely.

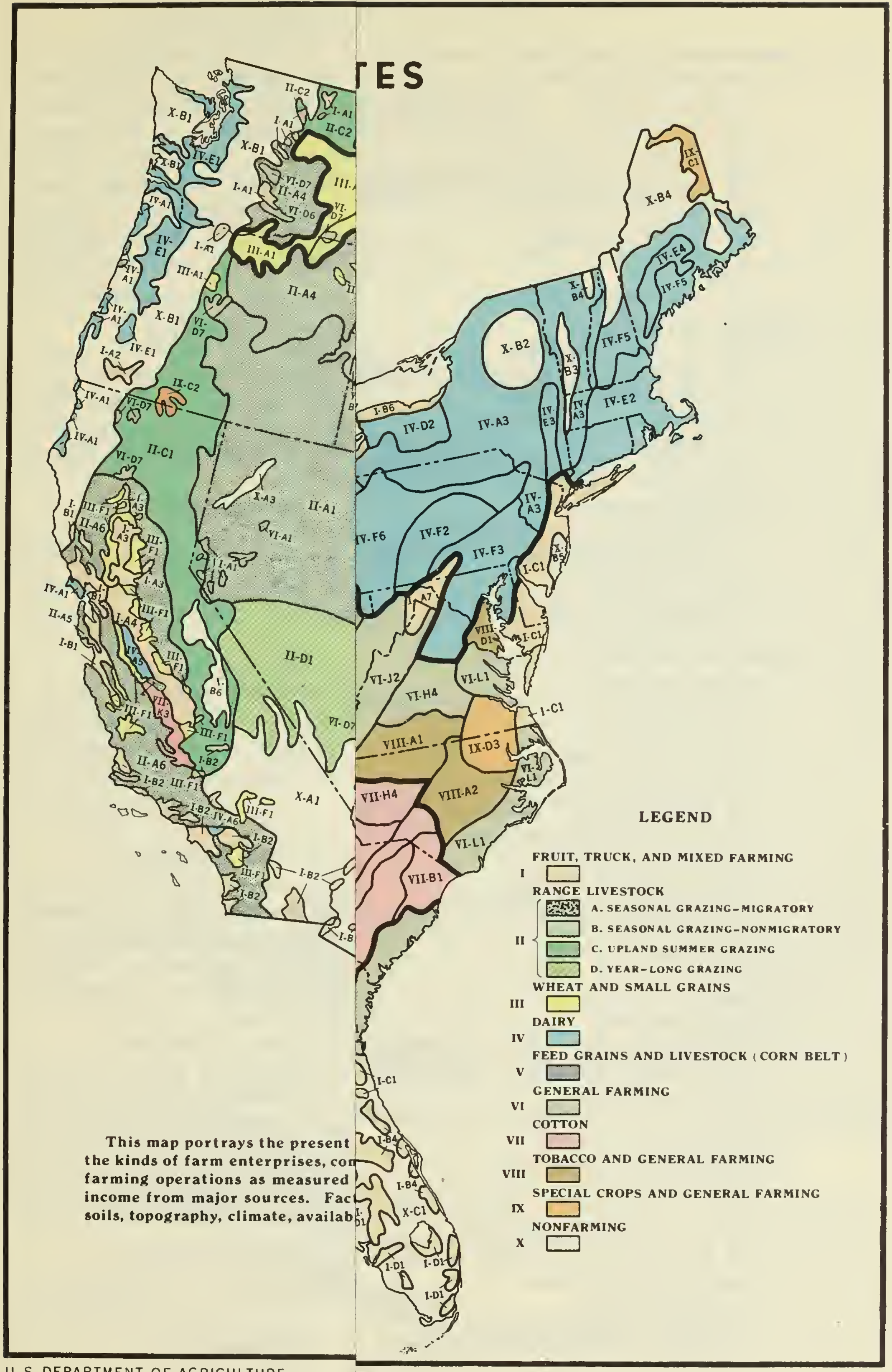
Use of weed sprays is becoming common in many areas. Several new kinds of insecticides and fungicides are used and the method of applying them and the kind of equipment used vary widely. A good deal of spraying and dusting is done with custom or contract outfits. Much of it is done with wholly or partially farmer-made equipment. Some of the material is applied by airplane, particularly in later stages in the growth of the crop. These recent innovations in materials used and methods of application cause wide variation in materials used and practices followed by farmers.

In each instance, the farmer was asked to enumerate operations in the sequence in which they were performed. Kind and size of machine and tractor used and the number of men and the time required per acre were recorded for each operation. In the case of practices that were repeated, such as cultivating and irrigating, and consistent or significant differences in time requirements between practices were noted, the pertinent detail is listed separately in the summary tables.

An attempt was made to account for all labor, power, machinery, contract or custom work, and material used in producing and harvesting the crops. In summarizing the data, certain items were combined unless it was apparent that the material or practice was increasing in importance and probably would become largely universal. For example, the use of pick-up balers, commercial fertilizers, and some pesticides appeared to be increasing in importance. These were listed and the percentage of the acreage covered was given so that at a later date changes in practices may be estimated.

Miscellaneous sizes of equipment were not listed in the final summaries but time requirements, acreage covered, and pertinent data for such operations were included with operations of important sizes of the same kind of equipment. For example, for a given crop in a certain area, 65 percent of the plowing was done with 2-14 inch plows, 30 percent with 1-16 inch plows, 3 percent with 1-18 inch plows, and 2 percent with 1-14 inch plows. In this case, acreages plowed with 1-14 and 1-18 inch plows are combined with the acreage plowed with 1-16 inch plows, and the rate of plowing carried in the summary for one-bottom plows is that for 1-16 inch plows.

In some instances it was impossible to obtain performance rates for custom machines from the persons interviewed. For this reason the rate used in the summaries for most custom jobs is the average rate given by farm operators who use the same sized-machines and crews. Custom work performed with several sizes of equipment, of which only one or two accounted for a sizable portion of the acreage, is listed with the more common size or sizes of equipment. Wherever practical local terminology was used in referring to practices followed, and machinery and materials used.



This map portrays the present
the kinds of farm enterprises, co
farming operations as measured
income from major sources. Fac
soils, topography, climate, availab

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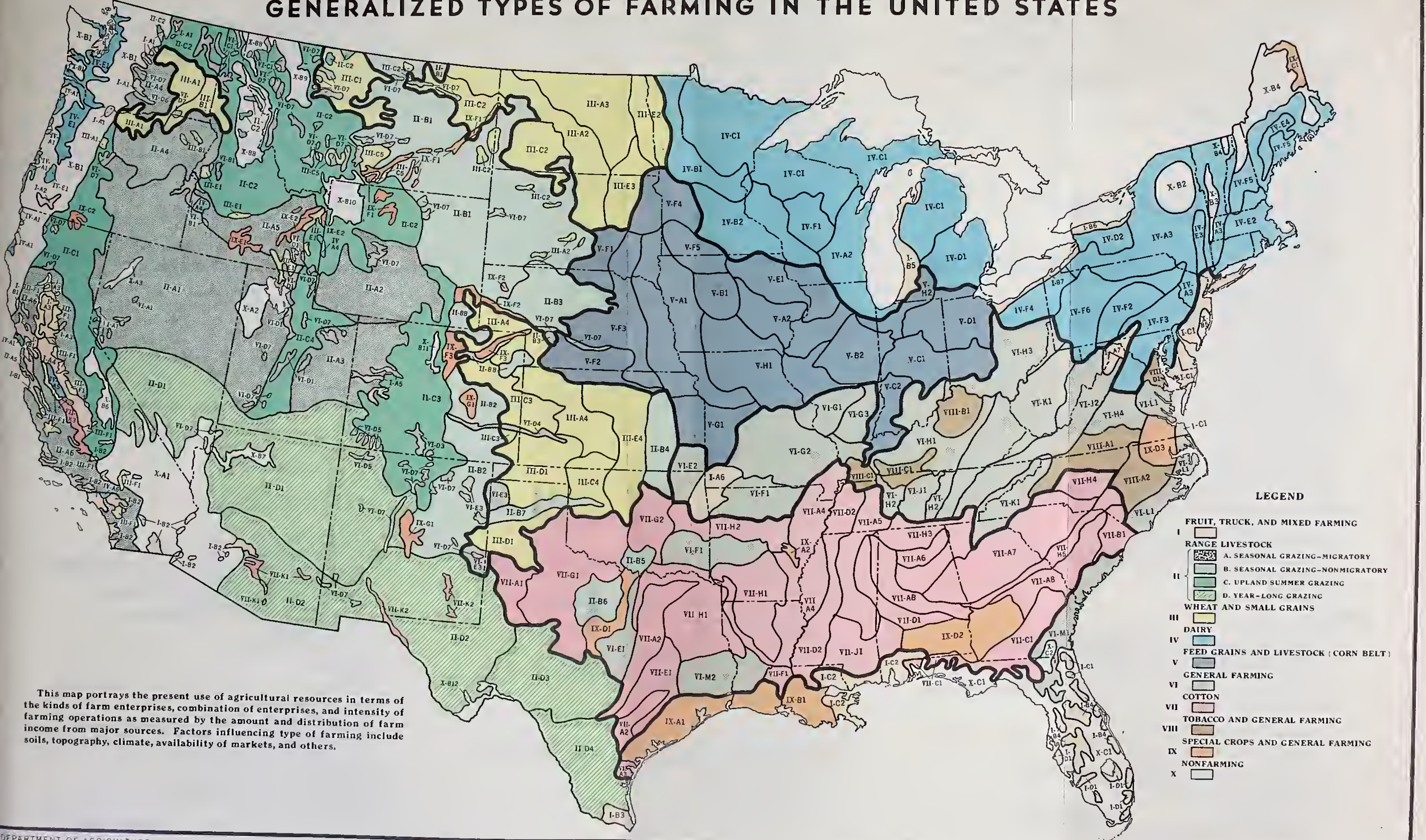
GENERALIZED TYPES OF FARMING IN THE UNITED STATES


LEGEND
I FRUIT, TRUCK, AND MIXED FARMING
II RANGE LIVESTOCK
A. SEASONAL GRAZING–MIGRATORY
B. SEASONAL GRAZING–NONMIGRATORY
C. UPLAND SUMMER GRAZING
D. YEAR–LONG GRAZING
III WHEAT AND SMALL GRAINS
IV DAIRY
V FEED GRAINS AND LIVESTOCK (CORN BELT)
VI GENERAL FARMING
VII COTTON
VIII TOBACCO AND GENERAL FARMING
IX SPECIAL CROPS AND GENERAL FARMING
X NONFARMING

This map portrays the present use of agricultural resources in terms of the kinds of farm enterprises, combination of enterprises, and intensity of farming operations as measured by the amount and distribution of farm income from major sources. Factors influencing type of farming include soils, topography, climate, availability of markets, and others.

DEPARTMENT OF AGRICULTURE

1949

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BUREAU OF AGRICULTURAL ECONOMICS

CLASSIFICATION AND REGIONALIZATION OF TYPES OF FARMING IN THE UNITED STATES

I. FRUIT, TRUCK, AND MIXED FARMING

- A. FRUIT AND MIXED FARMING
  - A 1. Central Washington. A 2. Southern Oregon. A 3. Sacramento Valley.
  - A 4. San Joaquin Valley. A 5. Colorado West Slope.
  - A 6. Ozark Plateau, Mo.–Ark.–Okla. A 7. Shenandoah–Cumberland Valleys.
- B. FRUIT, TRUCK, AND MIXED FARMING
  - B 1. Central California Coast. B 2. Southern California and Southwestern Arizona.
  - B 3. Lower Rio Grande Valley. B 4. Central Florida.
  - B 5. Eastern Shore of Lake Michigan. B 6. Southern Shore of Lake Ontario.
  - B 7. Southern Shore of Lake Erie.
- C. TRUCK AND MIXED FARMING
  - C 1. Atlantic Sandy Coastal Plain. C 2. Gulf Coast.
- D. TRUCK
  - D 1. Southern Florida.

II. RANGE LIVESTOCK

- A. SEASONAL GRAZING—MIGRATORY
  - A 1. Great Basin. A 2. Wyoming Basin. A 3. Colorado Plateau.
  - A 4. Columbia Basin—Blue Mountains. A 5. Snake River.
  - A 6. Sierra Foothills—Coast Range.
- B. SEASONAL GRAZING—NONMIGRATORY
  - B 1. Northern Great Plains. B 2. Southern High Plains.
  - B 3. Nebraska Sandhills Stock Farms. B 4. Osage—Flint Hills Stock Farms.
  - B 5. Arbuckle Mountain, Oklahoma Stock Farms. B 6. North Texas Grazing Area.
  - B 7. Canadian River Breaks. B 8. Central Plains Stock Farms.
- C. UPLAND SUMMER GRAZING
  - C 1. Sierra and Southern Cascade Mountains.
  - C 2. Northern Rocky Mountains and Associated Ranges.
  - C 3. Southern Rocky Mountains. C 4. Middle Rocky Mountains.
- D. YEAR-LONG GRAZING
  - D 1. Southwestern Semidesert, Migratory.
  - D 2. Southwestern Semidesert, Nonmigratory.
  - D 3. Edwards Plateau. D 4. Rio Grande Plains, Texas.

III. WHEAT AND SMALL GRAINS

- A. SPECIALIZED WHEAT
  - A 1. Columbia River Basin, Western Portion. A 2. East of Missouri River.
  - A 3. Central North Dakota. A 4. Central Plains.
- B. WHEAT AND PEAS
  - B 1. Columbia River Basin, Eastern Portion.
- C. WHEAT AND RANGE LIVESTOCK
  - C 1. Triangle—Judith Basin, Montana. C 2. Northern Plains.
  - C 3. Central High Plains. C 4. Red Hills. C 5. Southern Montana.
- D. WHEAT, GRAIN SORGHUMS, AND RANGE LIVESTOCK
  - D 1. Southern High Plains.
- E. WHEAT AND GENERAL FARMING
  - E 1. Southern Idaho. E 2. Red River Valley.
  - E 3. South Dakota—North Dakota, Spring Wheat—Corn Transition.
  - E 4. Central Kansas—Oklahoma.
- F. SMALL GRAINS
  - F 1. California Valley Borders.

IV. DAIRY

- A. SPECIALIZED DAIRY
  - A 1. North Pacific Coast. A 2. Eastern Wisconsin—Northeastern Illinois.
  - A 3. Central Northeast. A 4. Boise Valley and Star Valley.
  - A 5. San Joaquin Valley. A 6. Los Angeles Milkshed.
- B. DAIRY AND LIVESTOCK
  - B 1. Minnesota Cut-over Fringe. B 2. Southeast Minnesota—West Central Wisconsin.
- C. DAIRY, HAY, AND POTATOES
  - C 1. Lake States Cut-over, Small Scale.
- D. DAIRY AND CASH CROPS
  - D 1. East Central Michigan. D 2. Western New York.
- E. DAIRY, POULTRY, AND MIXED FARMING
  - E 1. Puget Sound—Willamette Valley. E 2. Southern New England.
  - E 3. Hudson River Valley. E 4. Central Maine.
- F. DAIRY AND GENERAL FARMING
  - F 1. Central Wisconsin. F 2. Central Pennsylvania.
  - F 3. Northern Piedmont. F 4. Lake Erie Border.
  - F 5. Northern New England, Small Scale.
  - F 6. Allegheny Plateau, Pennsylvania, Small Scale.

V. FEED GRAINS AND LIVESTOCK (CORN BELT)

- A. CATTLE FEEDING AND HOGS
  - A 1. Central Missouri River Valley. A 2. Eastern Iowa—Western Illinois.
- B. CASH CORN, OATS, AND SOYBEANS
  - B 1. Central Iowa. B 2. East Central Illinois.
- C. HOGS AND SOFT WINTER WHEAT
  - C 1. Central Indiana—Southwestern Ohio.
  - C 2. Wabash and Lower Ohio River Valleys.
- D. LIVESTOCK, DAIRY, SOYBEANS, AND CASH GRAIN
  - D 1. Northwestern Ohio—Northeastern Indiana.
- E. HOGS AND DAIRY
  - E 1. N. E. Iowa—N. W. Illinois—S. W. Wisconsin.
- F. LIVESTOCK AND CASH GRAIN
  - F 1. Northwestern Corn—Livestock Transition.
  - F 2. Southwestern Corn—Hard Winter Wheat Transition.
  - F 3. Western Corn Belt Fringe. F 4. Northwestern Corn Belt Fringe.
  - F 5. Northern Iowa—Southwestern Minnesota.
- G. LIVESTOCK, CASH GRAIN, AND DAIRY
  - G 1. Western Missouri—Eastern Kansas.
- H. LIVESTOCK AND PASTURE
  - H 1. Southern Iowa—Northern Missouri—West Central Illinois.
  - H 2. Northwestern Indiana—Southwestern Michigan.

VI. GENERAL FARMING

- A. DAIRY AND LIVESTOCK FEEDING—IRRIGATED
  - A 1. Western Nevada.
- B. DAIRY, HAY, AND SUGAR BEETS—IRRIGATED
  - B 1. Lower Snake River.
- C. DAIRY AND RANGE LIVESTOCK—SMALL SCALE
  - C 1. Northern Rocky Mountain Cut-over.
- D. LIVESTOCK AND SPECIAL CROPS—IRRIGATED
  - D 1. Central Utah and Southeastern Idaho. D 2. Western Montana.
  - D 3. San Luis Valley. D 4. Upper Arkansas Valley. D 5. San Juan Basin.
  - D 6. Southern Yakima Valley. D 7. Other Irrigated Valleys.
- E. LIVESTOCK AND CASH GRAIN
  - E 1. Grand Prairie of Texas.
  - E 2. Southeast Kansas—Northeast Oklahoma.
  - E 3. Southern High Plains, Texas—New Mexico.
- F. LIVESTOCK, TRUCK, AND COTTON—SMALL SCALE
  - F 1. Southern Ozark and Ouachita Mountains.
- G. DAIRY, LIVESTOCK, AND POULTRY
  - G 1. St. Louis Milkshed. G 2. Ozark Mountains and Border.
  - G 3. Southern Illinois Gray Lands.
- H. LIVESTOCK AND TOBACCO
  - H 1. Knobs and Coal Fields, Indiana—Kentucky.
  - H 2. Highland Rim of Tennessee. H 3. Upper Ohio River Valley and Hills.
  - H 4. Central Virginia Piedmont.
- J. LIVESTOCK AND DAIRY
  - J 1. Central Basin of Tennessee. J 2. Great Appalachian Valley.
- K. LIVESTOCK, FRUIT, AND TOBACCO—SMALL SCALE
  - K 1. Appalachian Mountains.
- L. TRUCK, TOBACCO, AND LIVESTOCK
  - L 1. Tidewater Virginia—North Carolina.
- M. FOREST PRODUCTS, TRUCK, AND COTTON—SMALL SCALE
  - M 1. Atlantic and Gulf Coast Flatwoods.
  - M 2. Texas—Louisiana Cut-over.

VII. COTTON

- A. SPECIALIZED COTTON
  - A 1. Southern High Plains. A 2. Texas Black Waxy Prairies.
  - A 3. Corpus Christi. A 4. Deltas of Mississippi River and Tributaries.
  - A 5. Mississippi and Tennessee Clay Hills and Sandy Loams.
  - A 6. Sand Mountain, Alabama. A 7. Southern Piedmont.
  - A 8. Upper Coastal Plains.
- B. COTTON AND TOBACCO
  - B 1. Central Coastal Plains, North Carolina—South Carolina.
- C. COTTON, TOBACCO, HOGS, AND PEANUTS
  - C 1. Lower Coastal Plains, Georgia—Florida.

VII. COTTON (CONTINUED)

- D. COTTON AND LIVESTOCK
  - D 1. Alabama—Mississippi Black Belt.
  - D 2. Mississippi—Tennessee—Louisiana Silt Loams.
- E. COTTON AND RANGE LIVESTOCK
  - E 1. Post Oak Strip of Texas.
- F. COTTON AND SUGARCANE
  - F 1. Central Louisiana.
- G. COTTON AND WHEAT
  - G 1. Rolling Plains, Texas—Oklahoma.
  - G 2. Mixed Prairies and Cross Timbers of Oklahoma.
- H. COTTON AND GENERAL FARMING
  - H 1. Western Sandy Coastal Plains, Texas—Arkansas—Louisiana—Oklahoma.
  - H 2. Arkansas River Valleys and Uplands.
  - H 3. Limestone Valleys and Uplands, Tennessee—Georgia—Alabama.
  - H 4. Piedmont of Central North Carolina.
  - H 5. Sand Hills of the Carolinas and Georgia.
- J. COTTON AND FOREST PRODUCTS
  - J 1. Gulf Coast Piney Woods.
- K. IRRIGATED COTTON AND ALFALFA
  - K 1. Southern Arizona. K 2. Rio Grande—Pecos. K 3. San Joaquin Valley.

VIII. TOBACCO AND GENERAL FARMING

- A. FLUE-CURED
  - A 1. Piedmont, Virginia—North Carolina.
  - A 2. Central Coastal Plains, North Carolina.
- B. BURLEY
  - B 1. Central Kentucky Bluegrass.
- C. DARK
  - C 1. Pennyroyal—Purchase, Kentucky—Tennessee.
- D. SOUTHERN MARYLAND
  - D 1. Southern Maryland.

IX. SPECIAL CROPS AND GENERAL FARMING

- A. RICE
  - A 1. Gulf Coastal Prairies, Texas—Louisiana.
  - A 2. Arkansas Prairies.
- B. SUGARCANE
  - B 1. Lower Louisiana Delta.
- C. POTATOES
  - C 1. Aroostook County, Maine.
  - C 2. Klamath Basin, Oregon—California.
- D. PEANUTS
  - D 1. Cross Timbers, Texas.
  - D 2. Southern Coastal Plains, Georgia—Alabama.
  - D 3. Northern Coastal Plains, Virginia—North Carolina.
- E. POTATOES, DRY BEANS, SUGAR BEETS, AND LIVESTOCK—IRRIGATED
  - E 1. Middle Snake River. E 2. Upper Snake River.
- F. SUGAR BEETS, DRY BEANS, AND LIVESTOCK—IRRIGATED
  - F 1. Upper Yellowstone River and Wyoming.
  - F 2. North Platte River. F 3. Northeastern Colorado.
- G. DRY BEANS—NONIRRIGATED
  - G 1. Colorado—New Mexico.

X. NONFARMING

- A. DESERTS
  - A 1. Mohave Desert. A 2. Utah Salt Flats. A 3. Black Rock Desert.
- B. MOUNTAINS AND FORESTS
  - B 1. Cascade Mountains and Associated Ranges.
  - B 2. Adirondack Mountains. B 3. Green Mountains of Vermont.
  - B 4. Northern Maine and New Hampshire Woods. B 5. New Jersey Pines.
  - B 6. Yosemite, General Grant, and Sequoia National Parks and Vicinity.
  - B 7. Grand Canyon National Park and Vicinity.
  - B 8. Northwestern Rocky Mountain Area.
  - B 9. Glacier National Park and Vicinity.
  - B 10. Yellowstone National Park and Vicinity.
  - B 11. Rocky Mountain National Park and Vicinity.
  - B 12. Big Bend National Park and Vicinity.
- C. LOWLANDS AND EVERGLADES
  - C 1. Florida Everglades and Flatwoods. C 2. Okefenokee Swamp.

All work performed, regardless of who performed the service, and all materials used are included in the summary. Unless otherwise specified, a tractor was the source of power. Performance rates are those given for actual field operations under usual conditions. Time required in extensive repairs, break-downs, and general farm overhead is not included. In the final summarization time, requirements for each operation were multiplied by a specified factor to account for direct man-labor spent in lubricating, checking and adjusting machines, making minor repairs, loading or filling machines such as drills, planters, dusters, fertilizer spreaders et cetera, and moving from field to field.

Immediately following this discussion is a map which identifies or locates each type-of-farming area. The identification of type-of-farming areas given on the map corresponds with the identification of the type-of-farming areas listed in the tables that follow, showing crops, areas and the year to which the data apply.

Following the map is a listing of the crops for which data were obtained in the Appalachian, Southeast and Mississippi Delta, the year to which the data pertain, and the type-of-farming area or portion of the area in which the survey was made. Data obtained for the crop produced in part of the type-of-farming area are so specified.

Information similar to that presented in this publication is given in other publications for: (1) the Northeast, (2) the Corn Belt and Lake States, (3) Great Plains, and (4) Mountain and Pacific States. A list of States included in each type-of-farming region, together with the information available for each region, appears at the end of this publication.

Requests for this information have come from many sources. One of the primary uses of the data has been to enable personnel in the Bureau of Agricultural Economics to provide the Federal Crop Insurance Corporation with estimates of farmers' investments in insured crops by stages in the growth of the crop. These estimates are revised each year as practices and cost rates change.

Extensive use is made of the data in many research projects, particularly in the research work relating to costs and returns in the Bureau of Agricultural Economics. Wide use of the data also is made by staffs in the Land-Grant Colleges, by other agencies in the Federal Government, and by private organizations and individuals. Staffs in the Land-Grant Colleges in many States contributed data, made helpful suggestions, and assisted in many other ways.

Special assistance was given by the Experiment Station at the University of Kentucky in collecting information on different types of tobacco in Kentucky.

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 3

Appalachian, Southeast, and Mississippi Delta

Crop	Type-of-farming area	Crop year	Page
Alfalfa:	VI-H2	1951	6
	VI-J1	1949	8
Barley:	IV-F3	1949	10
	VI-J2	1950	12
After corn	VI-J2	1950	14
Beans, snap:			
Pole	VII-A6	1950	16
Corn, grain:	IV-F3	1949	18
	VI-H2	1951	20
	VI-J1	1949	22
	VI-J2 (Tenn.)	1949	24
	VI-J2 (Va.)	1950	26
	VI-L1 (N.C.)	1949	28
	VI-L1 (Va.)	1949	30
	VII-A6	1950	32
	VII-A8	1949	34
	VII-H2	1951	36
	VIII-C1	1951	38
	IX-D2	1949	40
	IX-D3	1949	42
Cotton:	VI-H2	1951	44
	VII-A7	1947	46
	VII-H2	1951	48
	VIII-C1	1951	50
Crimson clover seed:	VI-H2	1951	52
Lespedeza hay:	VI-J1	1949	54
	VII-H2	1951	56
	VIII-C1	1951	58
Oats:	IV-F3	1949	60
	VII-H2	1951	62
	IX-D2	1949	64
Peanuts:	VII-A8	1949	66
	IX-D2	1949	68
	IX-D3	1949	70
Potatoes:	VI-H2	1951	73
	VII-H2	1951	75
Soybeans:			
Beans	VI-L1 (N.C.)	1949	77
	VI-L1 (Va.)	1949	79
	VII-A8	1949	81
	VII-H2	1951	83
	VIII-C1	1951	85
	IX-D3	1949	87
Hay	VII-A8	1949	89
Strawberries:	VII-H2	1951	91
	VIII-C1	1951	94
	IX-D2	1949	97
Sweetpotatoes:	VII-H2	1951	99
	VIII-C1	1951	101
	IX-D2	1949	103
Tomatoes:	VII-A6	1950	105

Continued

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 3 - Continued

Appalachian, Southeast, and Mississippi Delta

Crop	Type-of-farming area	Crop year	Page
Wheat, winter:	IV-F3	1949	107
	VI-H2	1951	109
	VI-J2 (Tenn.)	1949	111
	VI-J2 (Va.)	1950	113
	VI-L1 (Va.)	1949	115
After corn	VI-J2 (Va.)	1950	117
Tobacco:			
Type 11	VI-H4	1949	119
	VIII-A1	1949	122
Type 12(and 11 & 13)	VII-B1	1947	125
	VIII-A2	1947	125
Type 13	VI-M1	1949	128
Type 14	VI-M1	1949	131
	VII-C1	1949	134
	IX-D2	1949	137
Type 21	VI-H4	1949	140
Type 22	VIII-C1 (Penn. Ky.)	1951	143
	VIII-C1 (Penn. Tenn.)	1949	146
Tobacco: (Contd.)			
Type 23	VIII-C1 (Purch. Ky.)	1951	149
Type 31	V-C2	1951	152
	VI-H1	1951	155
	VI-J1	1949	158
	VI-J2	1949	161
	VIII-C1 (Penn. Ky.)	1951	164
	VIII-C1 (Purch. Ky.)	1951	167
	VIII-C1 (Penn. Tenn.)	1949	170
Type 35	VIII-C1 (Penn. Ky.)	1951	173
	VIII-C1 (Penn. Tenn.)	1949	176
	VIII-C1 (Purch. Ky.)	1951	179
Type 36	V-C2	1951	182

ALFALFA HAY: RESOURCES USED IN PRODUCTION, AREA VI-H2, 1951

The data presented here are based on a survey made in 1952 of 30 farms producing alfalfa hay in south central Tennessee. These farms are located in type-of-farming area VI-H2, a livestock and tobacco farming area of the Highland Rim of Tennessee.

Nearly all of the alfalfa in this area is planted without a nurse crop. Farmers reported that alfalfa seedings usually last about 5 years. Consequently, the charges for establishing the seeding are based on a 5-year stand.

The farms surveyed averaged 204 acres, of which 158 were in crops. In 1951, 12 acres were in alfalfa hay, and the average yield was 2.3 tons an acre.

Tractors provided most of the power used on farms in this area, although horses were used for some operations. The drawbar-horsepower rating of these tractors ranged from 10 to 29; the most common was about 18.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Establish seeding, total:						
Seed	Lb.	27	0.69	18.63	100	18.63
Manure	Ton	4	1/ 2.00	8.00	63	5.04
Mixed fertilizer	Cwt.	3.30	2.20	7.26	78	5.66
Potash (0-0-48)	Cwt.	5.50	2.30	12.65	10	1.26
Slag	Ton	1.0	14.00	14.00	34	4.76
Lime	Ton	3.0	2.70	8.10	82	6.64
Borax	Lb.	19.0	.04	.76	10	.08
Total for establishment						42.07
Annual charge to alfalfa	---	---	---	---	---	8.41
Mixed fertilizer	Cwt.	3.30	2.20	7.26	13	.94
Baler wire	500	.3	6.50	1.95	41	.80
Total annual charge						10.15

CONTRACT WORK HIRED

Baling 2/	Bale	76.7	.18	13.81	20	2.76
Total contract work						2.76

1/ Estimated. 2/ Bale ties were supplied by 16 percent of the contract operators.

Man labor, power, and machinery used by operation in producing and harvesting alfalfa hay, area VI-H2, south central Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Establish seeding:								
Apply manure, spreader	1-ton	1.0	8.13	1.54	56	4.55	0.86	---
Apply manure, horse-sp.	---	1.0	12.38	9.38	7	.87	---	0.66
Spread lime	90-bu.	1.0	.72	.38	77	.55	.29	---
Plow, moldboard	2-14 inch	1.0	1.35	1.29	19	.26	.25	---
Plow, moldboard, horse	1-14 inch	1.0	7.46	16.68	6	.45	---	1.00
Plow, disk	2-disk	1.0	1.66	1.59	66	1.10	1.05	---
Plow, subsoil	5-foot	1.0	.78	.75	2	.02	.02	---
Harrow, spiketooth	8-foot	2.2	.33	.30	76	.55	.50	---
Harrow, spiketooth, h.	7-foot	3.4	1.02	2.45	23	.80	---	1.92
Cultipack	8-foot	3.0	.42	.40	94	1.18	1.13	---
Cultipack, horses	8-foot	1.7	.82	2.43	6	.08	---	.25
Disk, tandem	7-foot	3.2	.48	.46	82	1.26	1.21	---
Disk, tandem, horses	6-foot	2.8	1.90	5.08	9	.48	---	1.42
Drag, wooden	10-foot	1.5	.28	.26	6	.03	.02	---
Drag, wooden, horses	6-foot	1.5	.78	1.12	4	.05	---	.07
Seed, drill	8-foot	1.0	.80	.52	82	.66	.43	---
Seed, drill, horses	7-foot	1.0	.99	2.12	12	.12	---	.25
Seed by hand	---	1.0	1.09	---	6	.07	---	---
Spread borax, cyclone	---	1.0	.75	.71	10	.08	.07	---
Total						13.16	5.83	5.57
Annual charge 1/	---	---	---	---	---	2.63	1.17	1.11
Disk, tandem	7-foot	1.0	.55	.52	4	.02	.02	---
Harrow, spiketooth	12-foot	1.0	.23	.21	4	.01	.01	---
Fertilize, drill	8-foot	1.0	.66	.60	2	.01	.01	---
Topdress, drill	7-foot	1.5	.51	.23	11	.08	.04	---
Total preharvest						2.75	1.25	1.11
Mow	7-foot	3.2	.53	.48	76	1.29	1.17	---
Mow, horses	5-foot	3.2	1.17	2.24	24	.90	---	1.72
Rake, side-delivery	9-foot	3.2	.42	.40	76	1.02	.97	---
Rake, dump, horses	8-foot	3.2	.57	1.11	24	.44	---	.85
Shock by hand	---	3.2	3.16	---	28	2.83	---	---
Bunch, rake	8-foot	3.2	.28	.26	10	.09	.08	---
Load and haul loose hay	---	3.2	3.99	.77	25	3.19	.62	---
Load & haul loose hay, h.	---	3.2	5.02	2.01	18	2.89	---	1.16
Bale	---	3.2	.79	.36	37	.94	.43	---
Bale, contract	---	3.2	1.02	.52	20	.65	.33	---
Haul and store bales	---	3.2	1.82	.52	53	3.08	.88	---
Haul & store bales, h.	---	3.2	3.91	1.93	4	.50	---	.25
Total harvest						17.82	4.48	3.98
Total						20.57	5.73	5.09

1/ In this area nearly all of the alfalfa was seeded without a nurse crop, and the average life of the crop was 5 years.

ALFALFA HAY: RESOURCES USED IN PRODUCTION, AREA VI-J1, 1949

The data presented here are based on a survey made in 1950 of 49 farms producing alfalfa hay in middle Tennessee. These farms are located in type-of-farming area VI-J1, a livestock and dairy area in the central basin of Tennessee.

Nearly all of the alfalfa in this area is planted without a nurse crop. Farmers reported that an alfalfa seeding usually lasts 5 years. Consequently, the annual charges are based on a 5-year stand.

The farms surveyed averaged 222 acres, of which 148 acres were in crops. In 1949, 16 acres were in alfalfa cut for hay, and the yield was 3.2 tons an acre.

Draft animals provided an important part of the power used on these farms. The drawbar-horsepower rating of the tractors on these farms ranged from 12 to 25; the most common was about 15.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Establish seeding, total:						
Seed	Lb.	25	0.50	12.50	100	12.50
Inoculant	Acre	1.0	.30	.30	85	.25
Manure	Ton	6	1/ 2.00	12.00	38	4.56
Mixed fertilizer	Cwt.	3.80	1.95	7.41	20	1.48
Phosphate fertilizer (20%)	Cwt.	4.80	1.15	5.52	23	1.27
Nitrate fertilizer	Cwt.	2.25	3.50	7.88	3	.24
Muriate of potash	Cwt.	1.25	4.10	5.12	10	.51
Lime	Ton	2.3	2.40	5.52	86	4.75
Total for establishment						25.56
Annual charge to alfalfa	---	---	---	---	---	5.11
Phosphate fertilizer	Cwt.	2.60	1.15	2.99	2	.06
Muriate of potash	Cwt.	1.25	4.10	5.12	3	.15
Borax	Cwt.	.20	4.00	.80	29	.23
Baler twine	Lb.	10.0	.25	2.50	28	.70
Total annual charge						6.25

CONTRACT WORK HIRED

Baling 2/	Ton	3.2	4.50	14.40	30	4.32
Total contract work						4.32

1/ Estimated. 2/ Includes cost of baler twine.

Man labor, power, and machinery used by operation in producing and harvesting alfalfa hay, area VI-J1, central Tennessee, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Establish seeding:								
Total alfalfa	---	---	---	---	---	12.68	4.80	10.56
Annual 1/	---	---	---	---	---	2.54	.96	2.11
Fertilize	---	1.0	1.40	0.67	5	.07	.03	---
Spread borax	7-foot	1.0	.95	.51	10	.10	.05	---
Spread borax, horses	5-foot	1.0	.97	1.23	4	.04	---	.05
Spread borax by hand	---	1.0	.76	---	15	.11	---	---
Total preharvest						2.86	1.04	2.16
Mow	7-foot	4.0	.60	.55	67	1.61	1.47	---
Mow, horses	4-foot	4.0	1.38	2.53	33	1.82	---	3.34
Rake, side-delivery	9-foot	4.0	.43	.41	70	1.20	1.15	---
Rake, side-delivery,h.	7-foot	4.0	.82	1.56	3	.10	---	.19
Rake, dump, horses	8-foot	4.0	.63	1.21	27	.68	---	1.31
Bale, pick-up	---	4.0	1.13	.53	28	1.26	.59	---
Bale, contract	---	4.0	1.13	.53	30	1.36	.64	---
Haul baled hay	---	4.0	2.72	.72	39	4.24	1.12	---
Haul baled hay,horses	---	4.0	1.89	1.22	19	1.44	---	.93
Bunch by hand	---	4.0	1.83	---	21	1.54	---	---
Haul loose hay	---	4.0	3.90	1.50	13	2.03	.78	---
Haul loose hay, h.	---	4.0	5.51	4.16	29	6.39	---	4.83
Total harvest						23.67	5.75	10.60
Total						26.53	6.79	12.76

1/ Approximately 100 percent of the farms seeded alfalfa without a nurse crop and the average life of the crop was 5 years.

BARLEY: RESOURCES USED IN PRODUCTION, AREA IV-F3, 1949

The data presented here are based on a 1950 survey of 44 farms producing barley in Pennsylvania, Maryland and Virginia. These farms are located in type-of-farming area IV-F3, a dairy and general farming area of the northern Piedmont.

The farms surveyed averaged 192 total acres, of which 12 were in barley. In 1949, the average yield of barley in this area was 40 bushels an acre.

Tractors provided most of the power used on these farms; they were used for operations listed in the following tables unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 10 to 28; the most common was about 18.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	1.9	2.15	4.08	100	4.08
Manure	Ton	5	2/2.00	10.00	12	1.20
Mixed fertilizer	Cwt.	3.35	2.00	6.70	99	6.63
Limestone	Ton	1.4	6.30	8.82	13	1.15
Total materials						13.06

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Threshing	Bu.	40	.08	3.20	24	.77
Combining	Acre	1.0	5.00	5.00	15	.75
Total contract work						1.52

1/ Approximately 57 percent of the farmers in this area purchased seed barley.

2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting barley, area IV-F3, northern Piedmont, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	75-bu.	1.0	2.50	1.25	12	0.30	0.15	---
Plow, moldboard	2-14 inch	1.0	1.43	1.36	49	.70	.67	---
Disk, tandem	7-foot	2.6	.55	.52	96	1.37	1.30	---
Disk, single, horses	7-foot	2.8	2.62	5.25	4	.29	---	0.59
Harrow, springtooth	10-foot	2.3	.44	.42	34	.34	.33	---
Harrow, spiketooth	15-foot	2.3	.26	.25	13	.08	.08	---
Seed, drill	8-foot	1.0	.77	.49	85	.65	.42	---
Seed, drill, horses	8-foot	1.0	1.10	2.10	15	.16	---	.32
Total preharvest						3.89	2.95	.91
Combine	6-foot	1.0	1.66	.84	59	.98	.50	---
Combine, contract	6-foot	1.0	1.66	.84	15	.25	.13	---
Bind	8-foot	1.0	1.38	.71	22	.30	.16	---
Bind, horses	8-foot	1.0	.91	1.74	4	.04	---	.07
Shock by hand	---	1.0	1.10	---	26	.29	---	---
Haul bundles	---	1.0	3.50	.63	21	.74	.13	---
Haul bundles, horses	---	1.0	3.50	3.30	5	.18	---	.16
Thresh	28-inch	1.0	.74	.35	2	.01	.01	---
Thresh, contract	28-inch	1.0	.74	.35	24	.18	.08	---
Haul grain	---	1.0	.42	.20	100	.42	.20	---
Total harvest						3.39	1.21	.23
Total						7.28	4.16	1.14

BARLEY: RESOURCES USED IN PRODUCTION, AREA VI-J2, 1950

The data presented here are based on a survey made in 1951 of approximately 20 farms producing barley in the Shenandoah Valley of northwestern Virginia. These farms are located in type-of-farming area VI-J2, a livestock and dairy area of the Great Appalachian Valley.

The farms surveyed averaged 145 acres, of which 69 acres were in cropland. In 1950, 7 acres were in barley, and the average yield was 40 bushels an acre.

Draft animals provided most of the power used on these farms, although tractors were reported on 40 percent of the farms surveyed. The drawbar-horsepower rating of these tractors ranged from 13 to 19; the most common was 19.

Materials used and contract work hired, 1950

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	1.9	1.50	2.85	100	2.85
Seed treat	Bu.	1.9	.08	.15	33	.05
Manure	Ton	6	2/ 2.00	12.00	37	4.44
Mixed fertilizer (3-12-6)	Cwt.	3.30	1.90	6.27	100	6.27
Twine	Lb.	2.9	.26	.75	100	.75
Total materials						14.36

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Binding	Acre	1.0	2.35	2.35	12	.28
Threshing	Bu.	37	.08	2.96	84	2.49
Total contract work						2.77

1/ Approximately 14 percent of the farmers in this area purchased seed.
2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting barley, area VI-J2, western Virginia, 1950

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	---	1.0	5.94	2.70	15	0.89	0.40	---
Apply manure, h. & wagon	---	1.0	8.57	17.14	21	1.80	---	3.60
Plow, moldboard	2-12 inch	1.0	2.28	2.17	64	1.46	1.39	---
Plow, moldboard, horses	1-12 inch	1.0	9.54	21.47	36	3.43	---	7.73
Disk, tandem	7-foot	2.2	.67	.61	53	.78	.71	---
Disk, tandem, horses	6-foot	3.0	2.17	6.52	26	1.69	---	5.09
Harrow, springtooth	8-foot	2.5	.59	.54	27	.40	.36	---
Harrow, springtooth, h.	6-foot	2.2	1.65	4.12	48	1.74	---	4.35
Drag	8-foot	1.0	.77	.70	14	.11	.10	---
Drag, horses	8-foot	2.2	1.68	4.62	35	1.30	---	3.56
Seed, drill	6-foot	1.0	1.66	1.26	28	.46	.35	---
Seed, drill, horses	6-foot	1.0	1.47	2.94	72	1.06	---	2.12
Total preharvest						15.12	3.31	26.45
Bind	7-foot	1.0	1.74	.91	62	1.08	.56	---
Bind, contract	7-foot	1.0	1.74	.91	12	.21	.11	---
Bind, horses	7-foot	1.0	2.56	4.79	26	.67	---	1.25
Shock	---	1.0	2.27	---	100	2.27	---	---
Haul to barn	---	1.0	3.81	1.66	14	.53	.23	---
Haul to barn, horses	---	1.0	3.57	3.11	13	.46	---	.40
Remove from barn	---	1.0	2.85	---	27	.77	---	---
Thresh from barn, c.	28-inch	1.0	.57	.41	27	.15	.11	---
Haul bundles	---	1.0	5.13	1.33	36	1.85	.48	---
Haul bundles, horses	---	1.0	6.01	3.07	19	1.14	---	.58
Haul bundles, truck	1½-ton	1.0	6.97	1.70	18	1.25	---	---
Thresh from shock	28-inch	1.0	.75	.51	16	.12	.08	---
Thresh from shock, c.	28-inch	1.0	.75	.51	57	.43	.29	---
Total harvest						10.93	1.86	2.23
Total 1/						26.05	5.17	28.68

1/ In addition, truck use averaged 0.31 hour an acre.

c.= operation done on a contract basis.

BARLEY (AFTER CORN): RESOURCES USED IN PRODUCTION, AREA VI-J2, 1950

The data presented here are based on a survey made in 1951 of approximately 20 farms producing barley, after corn, in the Shenandoah Valley of northwestern Virginia. These farms are located in type-of-farming area VI-J2, a livestock and dairy area of the Great Appalachian Valley.

The farms surveyed averaged 107 acres, of which 55 were in cropland. In 1950, 5 acres were in barley, after corn, and the average yield was 32 bushels an acre.

Draft animals provided most of the power used on these farms, although tractors were reported on 40 percent of the farms. The drawbar-horsepower rating of these tractors ranged from 13 to 19; the most common was 14.

Materials used and contract work hired, 1950

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	1.9	1.50	2.85	100	2.85
Seed treat	Bu.	1.9	.08	.15	33	.05
Manure	Ton	6	2/ 2.00	12.00	37	4.44
Mixed fertilizer (3-12-6)	Cwt.	3.30	1.90	6.27	100	6.27
Twine	Lb.	2.9	.26	.75	100	.75
Total materials						14.36

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Binding	Acre	1.0	2.35	2.35	12	.28
Threshing	Bu.	37	.08	2.96	84	2.49
Total contract work						2.77

1/ Approximately 14 percent of the farmers in this area purchased seed barley.

2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting barley, after corn, area VI-J2, western Virginia, 1950

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	---	1.0	5.94	2.70	15	0.89	0.40	---
Apply manure, h. & wagon	---	1.0	8.57	17.14	21	1.80	---	3.60
Disk, tandem	7-foot	2.2	.71	.65	57	.89	.82	---
Harrow, springtooth	6-foot	1.3	1.31	3.02	43	.73	---	1.69
Seed, drill	6-foot	1.0	1.66	1.26	28	.46	.35	---
Seed, drill, horses	6-foot	1.0	1.47	2.94	72	1.06	---	2.12
Total preharvest						5.83	1.57	7.41
Bind	7-foot	1.0	1.74	.91	62	1.08	.56	---
Bind, contract	7-foot	1.0	1.74	.91	12	.21	.11	---
Bind, horses	7-foot	1.0	2.56	4.79	26	.67	---	1.25
Shock	---	1.0	2.27	---	100	2.27	---	---
Haul to barn	---	1.0	3.81	1.66	14	.53	.23	---
Haul to barn, horses	---	1.0	3.57	3.11	13	.46	---	.40
Remove from barn	---	1.0	2.85	---	27	.77	---	---
Thresh, contract	28-inch	1.0	.57	.41	27	.15	.11	---
Haul bundles	---	1.0	5.13	1.33	36	1.85	.48	---
Haul bundles, horses	---	1.0	6.01	3.07	19	1.14	---	.58
Haul bundles, truck	---	1.0	6.97	1.70	18	1.25	---	---
Thresh	28-inch	1.0	.75	.51	16	.12	.08	---
Thresh, contract	28-inch	1.0	.75	.51	57	.43	.29	---
Total harvest						10.93	1.86	2.23
Total 1/						16.76	3.43	9.64

1/ In addition, truck use averaged 0.31 hour an acre.

POLE BEANS: RESOURCES USED IN PRODUCTION, AREA VII-A6, 1950

The following data are based on a survey made in 1951 of 35 farms that raised pole beans for fresh market in 1950 in type-of-farming area VII-A6, a specialized cotton area in north central Alabama. Pole beans are produced in scattered areas, most of which are located in the eastern part of the Sand Mountain area.

The farms surveyed averaged 80 acres, of which 42 acres were in crops. In 1950, the acreage of pole beans averaged 1 acre, and the average yield was 5,250 pounds an acre.

Tractors were reported on 34 percent of the farms surveyed and were used for some field operations on 49 percent of the acres planted. Draft animals were used for some operations, particularly planting and cultivating, on nearly all of the farms. The drawbar-horsepower rating of the tractors on these farms ranged from 7 to 16; the most common was about 13.

Materials used and contract work hired, 1950

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Purchased bean seed	Lb.	17	0.33	5.61	100	5.61
Cloverseed	Lb.	22	.10	2.20	17	.37
Manure	Ton	5	1/2.00	10.00	39	3.90
Mixed fertilizer 2/	Cwt.	11.55	2.15	24.83	100	24.83
Nitrate fertilizer	Cwt.	4.20	3.45	14.49	84	12.17
Talc dust	Lb.	135	.02	2.70	69	1.86
Methoxychlor (50%)	Lb.	19	.78	14.82	69	10.23
Derris dust	Lb.	143	.14	20.02	31	6.21
Bags	No.	189	.11	20.79	51	10.60
Hampers	No.	249	.14	34.86	19	6.62
Total materials						82.40

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Disking	Acre	1.0	5.40	5.40	5	.27
Dusting	Acre	3/6.0	2.00	12.00	5	.60
Hauling	Lb.	5,250	.01	52.50	5	2.62
Total contract work						3.49

1/ Estimated.

2/ Mostly 4-10-7, 6-8-8, and 6-8-4.

3/ One acre times average number of times over.

Man labor, power, and machinery used by operation in producing and harvesting pole beans, area VII-A6, north central Alabama, 1950

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, m. & wagon	---	1.0	5.56	7.58	39	2.17	---	2.96
Disk	---	1.0	.92	.88	17	.16	0.15	---
Seed cover crop by hand	---	1.0	.75	---	17	.13	---	---
Cut stalks, mules	1-row	1.0	4.86	8.36	15	.73	---	1.25
Remove sticks by hand	---	1.0	12.54	---	48	6.02	---	---
Plow, disk	2-disk	1.0	1.89	1.81	54	1.02	.98	---
Plow, disk	1-disk	1.0	2.52	2.40	7	.18	.17	---
Plow, moldboard, mules	1-10 inch	1.0	6.38	12.18	38	2.42	---	4.63
Disk, tandem	6-foot	1.5	.92	.88	57	.79	.75	---
Disk, tandem, contract	6-foot	1.0	.92	.88	5	.05	.04	---
Disk, single, mules	4-foot	1.4	2.30	4.39	11	.35	---	.68
Harrow	6-foot	1.0	.63	.58	14	.09	.08	---
Harrow, spiketooth, mules	8-foot	1.0	1.09	2.08	23	.25	---	.48
Drag	6-foot	1.0	.99	.90	4	.04	.04	---
Drag, mules	6-foot	1.0	1.28	2.44	35	.45	---	.85
Scratch, mules	1-row	1.0	1.58	1.81	22	.35	---	.40
List, mules	1-row	1.4	2.01	3.26	22	.62	---	1.00
Lay off rows, mules	---	1.0	1.67	2.39	83	1.39	---	1.98
Fertilize, mule	1-row	1.1	1.82	1.73	87	1.74	---	1.65
Fertilize by hand	---	1.0	2.68	---	8	.21	---	---
Plant, mule	1-row	1.0	1.55	1.48	72	1.12	---	1.07
Plant by hand	---	1.0	3.27	---	28	.92	---	---
Cover, mule	---	1.0	2.02	1.93	28	.57	---	.54
Cultivate, mule	½-row	3.7	2.99	2.86	100	11.06	---	10.58
Break middle, mule	½-row	1.4	1.72	1.64	14	.34	---	.32
Hoe by hand	---	1.8	7.92	---	41	5.85	---	---
Cut sticks	---	1.0	43.20	---	76	32.83	---	---
Haul sticks, truck	---	1.0	4.28	2.24	98	4.19	---	---
Stick by hand	---	1.0	43.39	---	100	43.39	---	---
Start runners	---	2.4	4.78	---	90	10.32	---	---
Sidedress, mule	---	1.2	3.16	2.51	55	2.08	---	1.66
Sidedress by hand	---	1.0	3.50	---	9	.32	---	---
Dust by hand	---	6.1	2.50	---	95	14.49	---	---
Dust by hand, contract	---	6.0	2.50	---	5	.75	---	---
Total preharvest						147.41	2.21	30.05
Pick by hand	---	6.2	48.97	---	100	303.61	---	---
Haul, truck	½-ton	6.2	15.66	8.17	95	92.24	---	---
Haul, truck, contract	½-ton	6.2	15.66	8.17	5	4.85	---	---
Total harvest						400.70	---	---
Total 1/						548.11	2.21	30.05

1/ In addition, truck use averaged 52.85 hours an acre, this includes the time spent in selling the beans.

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA IV-F3, 1949

The data presented here are based on a 1950 survey of 68 farms producing corn in Pennsylvania, Maryland and Virginia. These farms are in type-of-farming area IV-F3, a dairy and general farming area of the northern Piedmont.

The farms surveyed averaged 163 total acres, of which 22 were in corn for grain. In 1949, the average yield of corn in this area was 42 bushels an acre.

Tractors provided most of the power used on these farms; they were used for operations listed in the following tables unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 9 to 26; the most common was about 18.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	0.13	5.35	0.70	2	0.01
Purchased seed	Bu.	.13	10.70	1.39	98	1.36
Manure	Ton	8	1/ 2.00	16.00	63	10.08
Fertilizer (3-12-6)	Cwt.	3.35	2.00	6.70	92	6.16
Limestone	Ton	1.3	6.30	8.19	30	2.46
Spray (2,4-D)	Pt.	1.0	1.00	1.00	3	.03
Total materials						20.10

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Spraying	Acre	1.0	2/ 3.60	3.60	2	.07
Picking	Acre	1.0	5.80	5.80	18	1.04
Total contract work						1.11

1/ Estimated.

2/ Includes materials used.

Man labor, power, and machinery used by operation in producing and harvesting corn, area VI-H2, south central, Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	1-ton	1.0	4.78	1.28	12	0.57	0.15	---
Apply manure, horses-sp.	1-ton	1.0	3.30	4.50	1	.03	---	0.04
Plow, moldboard	2-14 inch	1.0	1.26	1.21	81	1.02	.98	---
Plow, moldboard, horses	1-14 inch	1.0	6.28	12.22	4	.25	---	.49
Plow, disk	2-disk	1.0	1.54	1.47	46	.71	.68	---
Disk, tandem	7-foot	2.2	.58	.52	76	.97	.87	---
Disk and cultipack	8-foot	1.8	.43	.41	13	.10	.10	---
Harrow, spiketooth	8-foot	1.5	.37	.34	73	.41	.37	---
Harrow, spiketooth, h.	6-foot	1.0	1.28	2.44	5	.06	---	.12
Plant	2-row	1.0	1.25	.71	65	.81	.46	---
Plant, horses	2-row	1.0	1.50	1.54	26	.39	---	.40
Plant, horses	1-row	1.0	1.99	2.78	9	.18	---	.25
Harrow, spiketooth	10-foot	1.4	.37	.34	24	.12	.11	---
Harrow, spiketooth, h.	9-foot	1.4	.51	.97	13	.09	---	.18
Cultivate, first	2-row	1.0	.82	.79	81	.66	.64	---
Cultivate, first, horses	1-row	1.0	3.01	5.86	19	.57	---	1.11
Cultivate, other	2-row	2.3	.51	.48	74	.87	.81	---
Cultivate, other	1-row	2.7	1.01	.97	13	.35	.34	---
Cultivate, other, horses	1-row	1.9	1.68	3.11	25	.80	---	1.48
Weed	6-row	2.0	.16	.16	10	.03	.03	---
Total preharvest						8.99	5.54	4.07
Pick by hand and haul	---	1.0	15.22	3.89	32	4.87	1.24	---
Pick by hand & haul, h.	---	1.0	10.13	9.71	31	3.14	---	3.01
Pick by machine	1-row	1.0	2.93	1.47	37	1.08	.54	---
Haul from picker	---	1.0	2.53	1.37	37	.94	.51	---
Total harvest						10.03	2.29	3.01
Total						19.02	7.83	7.08

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VI-J1, 1949

The data presented here are based on a survey made in 1950 of 46 farms producing corn for grain in middle Tennessee. These farms are located in type-of-farming area VI-J1, a livestock and dairy area in the central basin of Tennessee.

The farms averaged 212 acres per farm. In 1949, 121 acres were in crops, including 32 acres in corn for grain. The average yield of corn was 40 bushels an acre.

Draft animals provided an important part of the power used on these farms. The drawbar-horsepower rating of the tractors on these farms ranged from 7 to 25; the most common was about 15.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown corn	Bu.	0.13	1.25	0.16	38	0.06
Purchased seed corn	Bu.	.13	9.25	1.20	62	.74
Rye seed	Bu.	1.8	2.50	4.50	17	.76
Manure	Ton	3	2/ 2.00	6.00	6	.36
Mixed fertilizer	Cwt.	1.90	1.90	3.61	25	.90
Nitrate fertilizer	Cwt.	1.00	3.50	3.50	5	.18
Lime	Ton	2.1	2.45	5.14	7	.36
Total materials						3.36

1/ No contract work was reported on the farms surveyed in this area.
2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VI-J1, central Tennessee, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Plow	---	1.0	2.16	2.07	3	0.06	0.06	---
Disk, tandem	---	3.1	.59	.56	14	.26	.24	---
Seed, drill	---	1.0	.48	.46	6	.03	.03	---
Seed by hand	---	1.0	.57	---	11	.06	---	---
Apply manure, m. & wagon	---	1.0	4.60	4.40	6	.28	---	.26
Plow, moldboard	2-14 inch	1.0	1.62	1.55	12	.19	.19	---
Plow, moldboard, mules	---	1.0	6.90	13.64	32	2.21	---	4.36
Plow, disk	1-disk	1.0	3.48	3.33	5	.17	.17	---
Plow, disk	2-disk	1.0	1.92	1.84	38	.73	.70	---
Plow, disk	3-disk	1.0	1.44	1.38	13	.19	.18	---
Disk, tandem	6-foot	2.0	.62	.59	76	.94	.90	---
Disk, single, mules	---	1.4	2.01	5.96	19	.53	---	1.58
Harrow, spiketooth	7-foot	1.3	.52	.50	41	.28	.27	---
Harrow, spiketooth, mules	7-foot	1.6	1.16	2.82	29	.54	---	1.31
Disk and harrow	---	1.2	.76	.73	11	.10	.10	---
Cultipack	8-foot	1.0	.37	.36	13	.05	.05	---
Lay-off rows, mules	---	1.0	1.80	2.57	20	.36	---	.51
Plant	2-row	1.0	1.28	.81	8	.10	.06	---
Plant, mules	2-row	1.0	1.16	1.97	76	.88	---	1.50
Plant, mule	1-row	1.0	1.94	1.86	16	.31	---	.30
Cultipack	8-foot	1.0	.60	.57	14	.08	.08	---
Harrow, spiketooth	---	1.0	.64	.61	10	.06	.06	---
Harrow, spiketooth, mules	---	1.4	.89	1.83	35	.44	---	.90
Cultivate	2-row	2.6	.77	.70	63	1.26	1.15	---
Cultivate, mules	1-row	2.9	1.67	3.06	25	1.21	---	2.22
Cultivate, mule	1-row	1.3	1.93	1.77	9	.23	---	.21
Cultivate, mule	½-row	2.8	4.44	4.07	18	2.24	---	2.05
Chop and hoe	---	1.1	5.58	---	27	1.66	---	---
Total preharvest						15.45	4.24	15.20
Pick by hand, haul, mules	---	1.0	9.08	8.03	86	7.81	---	6.91
Pick by machine	1-row	1.0	1.44	.99	10	.14	.10	---
Pick by machine	2-row	1.0	.46	.44	4	.02	.02	---
Haul from picker	---	1.0	1.12	.64	7	.08	.04	---
Haul from picker, mules	---	1.0	1.29	1.41	7	.09	---	.10
Total harvest						8.14	.16	7.01
Total						25.59	4.40	22.21

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VI-J2, TENNESSEE, 1949

The data presented here are based on a survey made in 1950 of 20 farms producing corn for grain in eastern Tennessee. These farms are located in type-of-farming area VI-J2, a livestock and dairy area in the Great Appalachian Valley.

The farms surveyed averaged 183 acres per farm. In 1949, 126 acres were in crops, including 15 acres in corn for grain. The average yield of corn was 42 bushels an acre.

Draft animals provided an important part of the power used on these farms. Tractors were reported on 55 percent of the farms that raised corn and were used for some field operations on approximately 60 percent of the corn acreage. The drawbar-horsepower rating of the tractors on these farms ranged from 10 to 25; the most common was about 15.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	0.13	1.25	0.16	64	0.10
Purchased seed	Bu.	.13	10.00	1.30	36	.47
Manure	Ton	5	2/ 2.00	10.00	46	4.60
Mixed fertilizer(3-9-6)	Cwt.	2.35	1.95	4.58	91	4.17
Nitrate fertilizer	Cwt.	1.00	3.00	3.00	23	.69
Lime	Ton	1.0	2.05	2.05	6	.12
Total materials						10.15

1/ No contract work was reported on farms surveyed in this area.

2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VI-J2, eastern Tennessee, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	---	1.0	6.96	2.18	25	1.74	0.54	---
Apply manure, m. & wagon	---	1.0	10.28	11.57	21	2.16	---	2.43
Spread lime, truck	---	1.0	1.06	.76	6	.06	---	---
Plow, disk	2-disk	1.0	2.25	2.16	50	1.12	1.08	---
Plow, moldboard, mules	---	1.0	8.21	15.71	48	3.94	---	7.54
Disk, tandem	6-foot	2.0	.86	.82	47	.81	.77	---
Disk, single, mules	5-foot	1.8	2.01	4.24	42	1.52	---	3.20
Disk and harrow	---	1.5	.79	.76	17	.20	.19	---
Harrow, spiketooth	10-foot	1.3	.61	.58	15	.12	.11	---
Harrow, spiketooth, mules	---	2.0	.93	1.78	31	.58	---	1.10
Fertilize, drill	6-foot	1.0	1.69	1.08	10	.17	.11	---
Fertilize by hand	---	1.0	1.00	---	12	.12	---	---
Lay-off rows, mule	---	1.0	1.79	1.97	21	.38	---	.41
Plant	2-row	1.0	1.66	.94	21	.35	.20	---
Plant, mules	2-row	1.0	2.17	2.31	58	1.26	---	1.34
Plant, mule	1-row	1.0	1.71	1.64	21	.36	---	.34
Harrow, spiketooth, mules	---	1.0	1.15	2.20	14	.16	---	.31
Cultivate	2-row	2.4	1.03	.95	45	1.11	1.03	---
Cultivate, mules	1-row	2.4	1.87	3.43	33	1.48	---	2.72
Cultivate, mule	½-row	2.2	3.24	2.97	60	4.28	---	3.92
Hoe by hand	---	1.2	5.33	---	34	2.18	---	---
Total preharvest						24.10	4.03	23.31
Pick by hand and haul	---	1.0	9.59	3.06	40	3.84	1.22	---
Pick by hand & haul, mules	---	1.0	8.54	7.11	60	5.18	---	4.27
Total harvest						9.02	1.22	4.27
Total 1/						33.12	5.25	27.58

1/ In addition, truck use averaged 0.05 hour an acre.

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VI-J2, 1950

The data presented here are based on a survey made in 1951 of 20 farms producing corn for grain in the Shenandoah Valley of northwestern Virginia. These farms are located in type-of-farming area VI-J2, a livestock and dairy area of the Great Appalachian Valley.

The farms surveyed averaged 117 acres, of which 57 were in cropland. In 1950, 12 acres were in corn for grain, and the average yield was 57 bushels an acre.

Draft animals provided most of the power used on these farms, although tractors were reported on 45 percent of the farms surveyed. The drawbar-horsepower rating of these tractors ranged from 10 to 16; the most common was about 14.

Materials used and contract work hired, 1950

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Purchased seed	Bu.	0.16	9.80	1.57	100	1.57
Manure	Ton	8	1/ 2.00	16.00	54	8.64
Mixed fertilizer(3-12-6)	Cwt.	3.05	1.90	5.80	90	5.22
Total materials						15.43

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Plowing	Acre	1.0	3.00	3.00	6	.18
Disking	Acre	1.0	1.55	1.55	6	.09
Total contract work						.27

1/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VI-J2, northwestern Virginia, 1950

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	70-bu.	1.0	4.91	2.33	32	1.57	0.75	---
Apply manure, horses-sp.	65-bu.	1.0	6.81	13.00	22	1.50	---	2.86
Plow, moldboard	2-12 inch	1.0	2.20	2.10	50	1.10	1.05	---
Plow, contract	2-14 inch	1.0	1.77	1.69	6	.11	.10	---
Plow, moldboard, horses	1-12 inch	1.0	9.13	18.27	44	4.02	---	8.04
Disk, tandem	7-foot	2.0	.64	.61	50	.64	.61	---
Disk, tandem, contract	7-foot	2.0	.64	.61	6	.08	.07	---
Disk, tandem, horses	6-foot	1.7	1.58	4.72	36	.97	---	2.89
Harrow, springtooth	8-foot	1.4	.58	.52	48	.39	.35	---
Harrow, springtooth, h.	6-foot	1.2	1.58	3.15	45	.86	---	1.70
Drag	9-foot	1.0	.67	.61	32	.21	.20	---
Drag, horses	8-foot	1.2	1.44	2.88	43	.74	---	1.49
Plant	2-row	1.0	.85	.78	35	.30	.27	---
Plant, horses	2-row	1.0	1.14	2.08	65	.74	---	1.35
Replant by hand	---	1.0	2.13	---	14	.30	---	---
Harrow, spiketooth	12-foot	1.0	.58	.58	15	.09	.09	---
Pulverize, horses	8-foot	1.0	1.31	2.62	18	.24	---	.47
Cultivate, first	2-row	1.0	1.02	.98	51	.52	.50	---
Cultivate, first, horses	1-row	1.0	2.23	4.45	49	1.09	---	2.18
Cultivate, other	2-row	1.9	.98	.93	51	.95	.90	---
Cultivate, other, horses	1-row	2.3	2.01	4.01	49	2.26	---	4.52
Hoe by hand	---	1.0	5.00	---	7	.35	---	---
Total preharvest						19.03	4.89	25.50
Pick by machine	1-row	1.0	2.55	2.33	17	.43	.40	---
Haul from picker	---	1.0	2.33	.89	17	.40	.15	---
Cut by hand and shock	---	1.0	6.64	---	74	4.91	---	---
Cut, horse	2-row	1.0	4.20	4.20	9	.38	---	.38
Shuck by hand	---	1.0	10.40	---	65	6.76	---	---
Haul from shock, horses	---	1.0	4.07	8.15	65	2.65	---	5.30
Haul to shredder, h.	---	1.0	7.88	7.88	18	1.42	---	1.42
Shred	6-roll	1.0	3.52	1.68	18	.63	.30	---
Total harvest						17.58	.85	7.10
Total						36.61	5.74	32.60

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VI-L1, NORTH CAROLINA, 1949

The data presented here are based on a survey made in 1950 of 38 farms producing corn for grain in eastern North Carolina. These farms are located in type-of-farming area VI-L1, a truck, tobacco, and livestock area in the Tidewater section.

The farms surveyed averaged 116 acres per farm. In 1949, 52 acres were in crops, including 27 acres in corn for grain. The average yield of corn was 33 bushels an acre.

Draft animals provided an important part of the power used on these farms. The drawbar-horsepower rating of tractors on these farms ranged from 12 to 25; the most common was about 15.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	0.19	1.25	0.24	54	0.13
Purchased seed	Bu.	.19	8.65	1.64	46	.75
Mixed fertilizer(4-10-6)	Cwt.	3.80	2.25	8.55	100	8.55
Nitrate of soda	Cwt.	2.30	3.10	7.13	60	4.28
Lime	Ton	1.2	5.30	6.36	3	.19
Dust (DDT)	Lb.	10.0	.05	.50	5	.02
Total materials						13.92

1/ No contract work was reported on farms surveyed in this area.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VI-L1, eastern North Carolina, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Cut stalks	---	1.0	0.77	0.74	5	0.04	0.04	---
Cut stalks, mules	---	1.0	1.44	2.65	30	.43	---	0.80
Plow, moldboard	2-14 inch	1.0	1.28	1.22	38	.49	.46	---
Plow, tiller	6-disk	1.0	.68	.65	16	.11	.10	---
Plow, moldboard, mules	---	1.0	5.68	9.98	30	1.70	---	2.99
Middlebust and bed	2-row	2.0	.60	.55	8	.10	.09	---
Middlebust & bed, mules	---	1.6	1.94	2.29	21	.65	---	.77
Disk, tandem	6-foot	2.3	.71	.68	60	.98	.94	---
Disk, single, mules	---	1.3	2.05	4.07	27	.72	---	1.43
Spread lime	---	1.0	2.10	2.01	3	.06	---	.06
Haul fertilizer	---	1.0	.25	.16	43	.11	.07	---
Haul fertilizer, mules	---	1.0	.49	.46	49	.24	---	.23
Fertilize	---	1.0	.34	.33	9	.03	.03	---
Fertilize, mule	---	1.0	2.20	1.54	49	1.08	---	.75
Harrow, spiketooth	---	2.6	.46	.44	5	.06	.06	---
Harrow, spiketooth, mules	---	1.0	.99	1.55	35	.35	---	.54
Lay-off rows	---	1.0	.77	.74	3	.02	.02	---
Lay-off rows, mule	---	1.0	1.76	1.68	37	.65	---	.62
Plant	2-row	1.0	1.21	.78	41	.50	.32	---
Plant, mule	---	1.0	1.91	1.65	59	1.13	---	.97
Cultivate	2-row	3.8	.64	.56	58	1.41	1.24	---
Cultivate, mules	---	3.8	3.17	3.66	42	5.06	---	5.85
Top-dress by hand	---	1.0	1.94	---	41	.80	---	---
Top-dress, mule	---	1.0	1.48	1.42	3	.04	---	.04
Dust	4-row	1.0	.25	.22	5	.01	.01	---
Hoe by hand	---	1.0	5.38	---	50	2.69	---	---
Scoop drains, mule	---	1.0	.34	.33	8	.03	---	.03
Scoop drains by hand	---	1.0	1.84	---	30	.55	---	---
Total preharvest						20.04	3.38	15.08
Snap by hand and haul	---	1.0	6.00	2.00	2	.12	.04	---
Snap by hand & haul, mule	---	1.0	9.63	8.27	22	2.12	---	1.82
Snap by hand and pile	---	1.0	7.90	---	44	3.48	---	---
Haul from field	---	1.0	4.91	2.83	7	.34	.20	---
Haul from field, mules	---	1.0	3.99	4.61	37	1.48	---	1.71
Pick by machine 1/	1-row	1.0	2.04	1.54	32	.65	.49	---
Haul from picker	---	1.0	1.41	1.05	26	.37	.27	---
Total harvest						8.56	1.00	3.53
Total						28.60	4.38	18.61

1/ Includes hauling for 6 percent of the acreage.

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VI-L1, VIRGINIA, 1949

The data presented here are based on a survey made in 1950 of 43 farms producing corn for grain in eastern Virginia. These farms are located in type-of-farming area VI-L1, a truck, grain, and livestock area in the Tidewater section.

The farms surveyed averaged 244 acres per farm. In 1949, 154 acres were in crops, including 33 acres in corn for grain. The average yield of corn was 53 bushels an acre.

Tractors provided most of the power used on these farms, although draft animals were used for some operations. The drawbar-horsepower rating of the tractors on these farms ranged from 12 to 25; the most common was about 15.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Bu.	0.14	11.50	1.61	100	1.61
Manure	Ton	6	1/ 2.00	12.00	16	1.92
Mixed fertilizer (3-12-6)	Cwt.	4.45	1.90	8.46	96	8.12
Phosphate fertilizer(0-20-0)	Cwt.	4.25	1.20	5.10	2	.10
Calcium nitrate	Cwt.	2.65	2.75	7.29	30	2.19
Lime	Ton	1.1	4.30	4.73	18	.85
Total materials						14.79

1/ No contract work was reported on farms surveyed in this area.
2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VI-L1, eastern Virginia, 1949

Operation	Size of equipment	Times over	Time per acre once over: Man	Time per acre once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	---	1.0	6.10	2.00	11	0.67	0.22	---
Apply manure, horses-sp.	---	1.0	4.28	3.63	5	.21	---	0.18
Plow, moldboard	2-14 inch	1.0	1.49	1.43	58	.86	.83	---
Plow, moldboard	2-18 inch	1.0	1.04	.99	33	.34	.33	---
Plow, moldboard	3-14 inch	1.0	.92	.88	6	.06	.05	---
Disk, tandem	6-foot	2.1	.56	.54	99	1.17	1.12	---
Spread lime	---	1.0	.34	.33	18	.06	.06	---
Fertilize	---	1.0	1.10	.92	11	.12	.10	---
Harrow, spiketooth	---	1.2	.48	.46	73	.42	.40	---
Plant	2-row	1.0	1.14	.78	64	.73	.50	---
Plant, horses	---	1.0	1.37	2.18	36	.49	---	.78
Cultivate	2-row	3.4	.74	.66	90	2.27	2.02	---
Cultivate, horses	---	3.6	2.33	3.94	10	.84	---	1.42
Top-dress	---	1.0	1.24	.72	12	.15	.09	---
Top-dress by hand	---	1.0	1.60	---	8	.13	---	---
Hoe by hand	---	1.0	3.04	---	22	.67	---	---
Total preharvest						9.19	5.72	2.38
Pick by hand and haul	---	1.0	21.60	7.90	2	.43	.16	---
Pick by hand and haul,h.	---	1.0	14.30	19.40	5	.72	---	.97
Pick by hand and pile	---	1.0	15.10	---	22	3.32	---	---
Haul from field	---	1.0	2.52	2.06	16	.40	.33	---
Haul from field, horses	---	1.0	3.70	6.62	6	.22	---	.40
Pick by machine 1/	1-row	1.0	3.12	2.30	40	1.25	.92	---
Pick by machine	2-row	1.0	1.20	1.10	31	.37	.34	---
Haul from picker	---	1.0	2.52	2.06	56	1.41	1.15	---
Haul from picker, horses	---	1.0	3.70	6.62	5	.18	---	.33
Total harvest						8.30	2.90	1.70
Total						17.49	8.62	4.08

1/ Includes hauling rates for 10 percent of the acreage.

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VII-A6, 1950

The following data are based on a survey made in 1951 of 44 farms raising corn for grain in 1950 in type-of-farming area VII-A6. These farms are located in the eastern part of the Sand Mountain area, a specialized cotton area in north central Alabama.

The farms surveyed averaged 88 acres, of which 39 acres were in crops. In 1950, 13 acres were in corn for grain, and the average yield was 35 bushels an acre.

Draft animals provided about half of the power used on these farms. Tractors were reported on 41 percent of the farms. Farms having tractors had 53 percent of the corn acreage. All of the work on 25 percent of the acreage was performed with tractor power only. The drawbar-horsepower ratings of tractors in this area ranged from 7 to 26; the most common was about 13.

Materials used and contract work hired, 1950 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	0.10	1.70	0.17	58	0.10
Purchased seed	Bu.	.10	8.90	.89	42	.37
Vetch seed	Lb.	30	.18	5.40	22	1.19
Manure	Ton	4	2/ 2.00	8.00	9	.72
Mixed fertilizer (4-10-7)	Cwt.	2.55	2.05	5.23	100	5.23
Nitrate fertilizer(16-0-0)	Cwt.	1.55	3.30	5.12	74	3.79
Total materials						11.40

1/ No contract work was reported on farms surveyed in this area.

2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VII-A6, north central Alabama, 1950

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Drill cover crop, mule	---	1.0	2.75	2.75	8	0.22	---	0.22
Seed cover crop by hand	---	1.0	.72	---	14	.10	---	---
Apply manure, m. & wagon	---	1.0	5.97	9.20	9	.54	---	.83
Cut stalks	1-row	1.0	.78	.71	23	.18	0.16	---
Cut stalks, mules	1-row	1.0	1.31	2.62	45	.59	---	1.18
Plow, disk	2-disk	1.0	2.16	2.06	42	.91	.87	---
Plow, moldboard, mule	1-10 inch	1.0	5.33	10.67	34	1.81	---	3.63
Disk, tandem	6-foot	1.5	.91	.83	54	.73	.67	---
Harrow	8-foot	1.0	.40	.37	14	.06	.05	---
Harrow, mules	8-foot	1.0	1.10	2.20	14	.15	---	.31
Drag, mules	7-foot	1.0	.96	1.91	15	.14	---	.29
Lay-off rows, mule	1-row	1.0	1.44	1.44	44	.63	---	.63
Fertilize, mule	1-row	1.0	1.50	1.50	69	1.04	---	1.04
Plant	1-row	1.0	1.26	1.16	27	.34	.31	---
Plant, mule	1-row	1.0	1.50	1.43	73	1.10	---	1.04
Cultivate	1-row	2.5	1.26	1.16	30	.94	.87	---
Cultivate, mule	1-row	2.7	2.26	2.26	81	4.94	---	4.94
Run middles, mule	1-row	1.0	1.46	1.46	28	.41	---	.41
Sidedress, mule	1-row	1.0	1.80	1.80	28	.50	---	.50
Sidedress by hand	---	1.0	1.36	---	32	.44	---	---
Hoe by hand	---	1.2	3.87	---	32	1.48	---	---
Total preharvest						17.25	2.93	15.02
Pick by hand and haul	---	1.0	11.01	2.57	22	2.42	.57	---
Pick by hand & haul, mules	---	1.0	9.00	6.92	47	4.23	---	3.25
Pick by hand	---	1.0	8.24	---	31	2.55	---	---
Haul from field, mules	---	1.0	2.77	2.46	31	.86	---	.76
Total harvest						10.06	.57	4.01
Total						27.31	3.50	19.03

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VII-A8, 1949

The data presented here are based on a survey made in 1950 of 44 farms producing corn for grain in central Alabama and central South Carolina. These farms are located in type-of-farming area VII-A8, a specialized cotton area of the Upper Coastal Plains.

The farms surveyed averaged 206 acres. In 1949, 27 acres were in corn for grain. According to the 1950 census data for the counties included in the survey, the average yield of corn in 1949 was 14 bushels an acre.

Tractors were reported on 50 percent of the farms surveyed, although draft animals were used for some operations on nearly all of the farms. The drawbar-horsepower rating of the tractors ranged from 7 to 26; the most common was about 19.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	0.17	1.40	0.24	67	0.16
Purchased seed	Bu.	.17	8.55	1.45	33	.48
Mixed fertilizer 2/	Cwt.	3.00	2.00	6.00	98	5.88
Nitrate fertilizer(16-0-0)	Cwt.	1.30	3.25	4.22	91	3.84
Nitrate fertilizer(33-0-0)	Cwt.	.60	3.60	2.16	7	.15
Total materials						10.51

1/ No contract work was reported on farms surveyed in this area.

2/ No predominant kind of mixture.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VII-A8, central Alabama and central South Carolina, 1949

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Cut stalks	2-row	1.0	0.52	0.49	9	0.05	0.04	---
Cut stalks, mules	1-row	1.0	2.39	4.64	2	.05	---	0.09
Plow, moldboard	2-14 inch	1.0	2.00	1.91	4	.08	.08	---
Plow, moldboard, mules	1-12 inch	1.0	6.73	10.11	27	1.82	---	2.73
Plow, disk	4-disk	1.0	1.35	1.29	65	.88	.84	---
Plow, subsoil	---	1.0	.96	.91	5	.05	.05	---
Disk	5-foot	1.2	.88	.84	67	.71	.68	---
Disk, mules	3-foot	1.0	1.42	2.76	4	.06	---	.11
Harrow, spiketooth, mules	6-foot	1.2	1.75	2.34	5	.10	---	.14
Bed, mules	---	1.0	1.45	2.03	31	.45	---	.63
Fertilize, mule	1-row	1.0	2.38	2.28	16	.38	---	.36
Fertilize, mules	2-row	1.0	1.09	1.46	6	.07	---	.09
Plant	2-row	1.0	1.77	.92	57	1.01	.52	---
Plant, mules	2-row	1.0	1.26	1.61	16	.20	---	.26
Plant	1-row	1.0	2.63	1.50	8	.21	.12	---
Plant, mule	1-row	1.0	1.83	1.92	19	.35	---	.36
Cultivate	2-row	3.1	1.19	.94	57	2.10	1.66	---
Cultivate, mules	2-row	3.6	1.42	2.00	21	1.07	---	1.51
Cultivate	1-row	3.0	1.84	1.75	10	.55	.52	---
Cultivate, mule	1-row	4.5	3.43	3.34	12	1.85	---	1.80
Side-dress by hand	---	1.0	1.97	---	32	.63	---	---
Hoe	---	2.1	4.62	---	7	.68	---	---
Total						13.35	4.51	8.08
Pick by hand and haul	---	1.0	28.69	1.48	65	18.65	.96	---
Pick by hand & haul, mule	---	1.0	11.77	3.68	27	3.18	---	.99
Pick by hand	---	1.0	9.24	---	8	.74	---	---
Haul from field, mules	---	1.0	1.66	1.66	8	.13	---	.13
Total harvest						22.70	.96	1.11
Total						36.05	5.47	9.19

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 30 farms producing corn in west central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area in the Arkansas River valleys and uplands.

The farms surveyed averaged 359 acres, of which 232 were in crops. In 1951, 19 acres were in corn for grain, and the average yield was 39 bushels an acre.

Tractors provided most of the power used on the farms in this area, although horses were used for some operations. The drawbar-horsepower rating of these tractors ranged from 10 to 31; the most common was about 19.

Materials used and contract work hired, 1951 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Purchased seed	Bu.	0.13	9.90	1.29	100	1.29
Mixed fertilizer(5-10-5)	Cwt.	2.70	2.55	6.88	57	3.92
Mixed fertilizer	Cwt.	2.25	2.80	6.30	41	2.58
Nitrate fertilizer(33-0-0)	Cwt.	1.55	4.00	6.20	15	.93
Total materials						8.72

1/ No contract work was reported on farms surveyed in this area.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area VII-H2, west central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Disk, tandem	7-foot	1.7	0.70	0.67	30	0.36	0.34	---
Plow, moldboard	2-14 inch	1.0	1.32	1.26	60	.79	.76	---
Plow, moldboard, horses	1-10 inch	1.0	3.93	7.64	9	.35	---	0.69
Plow, disk	2-disk	1.0	1.53	1.46	29	.44	.42	---
Disk, tandem	7-foot	1.8	.58	.56	86	.89	.87	---
Disk, single, horses	9-foot	1.5	1.63	3.17	5	.12	---	.24
Harrow, spiketooth	8-foot	1.3	.37	.34	48	.23	.21	---
Harrow, spiketooth, h.	7-foot	1.4	.70	1.34	12	.12	---	.23
Fertilize, distributor	2-row	1.0	.38	.35	12	.05	.04	---
Fertilize, horses	1-row	1.0	1.59	2.04	23	.37	---	.47
Lay-off rows, horses	2-row	1.0	1.83	3.02	9	.16	---	.27
Plant	2-row	1.0	1.01	.66	62	.63	.41	---
Plant	4-row	1.0	.36	.33	17	.06	.06	---
Plant, horses	1-row	1.0	1.66	2.31	21	.35	---	.49
Cultivate, first	2-row	1.0	.72	.68	68	.49	.46	---
Cultivate, first	4-row	1.0	.35	.34	15	.05	.05	---
Cultivate, first, h.	1-row	1.0	1.43	2.78	17	.24	---	.47
Cultivate, other	2-row	3.4	.47	.45	67	1.07	1.03	---
Cultivate, other	4-row	1.5	.35	.34	15	.08	.08	---
Cultivate, other, h.	1-row	3.1	1.40	2.72	17	.74	---	1.43
Hoe by hand	---	1.0	3.77	---	4	.15	---	---
Total preharvest						7.74	4.73	4.29
Pick by hand & haul	---	1.0	18.50	3.26	59	10.92	1.92	---
Pick by hand & haul, h.	---	1.0	10.88	8.00	24	2.61	---	1.92
Pick by machine	2-row	1.0	.91	.87	17	.15	.15	---
Haul from picker, t.	---	1.0	3.10	2.41	17	.53	---	---
Total harvest						14.21	2.07	1.92
Total 1/						21.95	6.80	6.21

1/ In addition, truck use averaged 0.41 hour an acre.

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA VIII-C1, 1951

The data presented here are based on a survey made in 1952 of 24 farms producing corn for grain in northwestern Tennessee. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area of the Pennyroyal-Purchase.

The farms surveyed averaged 142 acres, including 98 acres in cropland. In 1951, 26 acres were in corn for grain, and the average yield was 47 bushels an acre.

Tractors provided most of the power used on these farms, although draft animals were used for some operations. The drawbar-horsepower rating of these tractors ranged from 7 to 31; the most common was about 18.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Purchased seed	Bu.	0.14	8.95	1.25	100	1.25
Manure	Ton	1.0	1/ 2.00	2.00	6	.12
Mixed fertilizer (6-12-12)	Cwt.	2.50	2.75	6.88	52	3.58
Mixed fertilizer	Cwt.	3.20	3.00	9.60	41	3.94
Lime	Ton	.7	3.45	2.42	8	.19
Total materials						9.08

CONTRACT WORK HIRED

Picking	Acre	1.0	4.80	4.80	29	1.39
Total contract work						1.39

1/ Estimated.

Man labor, power, and machinery used by operation in producing
and harvesting corn for grain, area VIII-C1,
northwestern Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms	
			Man	Power		Man	Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Apply manure, horses-sp.	1½ ton	1.0	1.10	1.50	6	0.07	---
Spread lime, spreader	5-ton	1.0	.47	.31	8	.04	0.02
Disk, tandem	7-foot	1.1	.62	.59	37	.25	.24
Plow, moldboard	2-14 inch	1.0	1.17	1.11	100	1.17	1.11
Plow, disk tiller	6-foot	1.0	.58	.56	3	.02	.02
Disk, tandem	7-foot	2.1	.43	.41	96	.86	.83
Harrow, spiketooth	8-foot	1.3	.33	.30	54	.23	.21
Drag, wooden	12-foot	2.0	.25	.24	58	.29	.28
Cultipack	8-foot	1.0	.36	.35	17	.06	.06
Plant	2-row	1.0	.82	.54	65	.53	.35
Plant, horses	2-row	1.0	1.71	1.78	35	.60	---
Cultivate, first	2-row	1.0	.74	.70	100	.74	.70
Cultivate, other	2-row	1.9	.56	.54	94	1.00	.97
Hoe by hand	---	1.0	25.38	---	19	4.82	---
Total preharvest						10.68	4.79
Pick by machine	1-row	1.0	2.20	1.05	8	.18	.08
Pick by machine, contract	---	1.0	1.40	.96	29	.41	.28
Haul from picker	---	1.0	1.47	1.02	37	.54	.38
Pick by hand & haul	---	1.0	8.70	1.91	45	3.92	.86
Pick by hand & haul, h.	---	1.0	13.88	10.21	18	2.50	---
Total harvest						7.55	1.60
Total 1/						18.23	6.39

1/ In addition, horse work averaged 2.55 hours an acre.

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA IX-D2, 1949

The data presented here are based on a survey made in 1950 of 58 farms that produced corn for grain in 1949. These farms are located in type-of-farming area IX-D2, a peanut and general farming area in the coastal plains of southern Alabama and Georgia.

The farms surveyed averaged 199 acres, of which 102 acres were in crops in 1949. The acreage of corn in 1949 averaged 132 acres per farm. The yield of corn was not obtained from the farms surveyed, but the 1950 Census of Agriculture shows the average yield was 14 bushels an acre in 1949 for the counties in which the survey farms were located.

Mules provided most of the power used on these farms. Only 29 percent of the farms reported tractors. The drawbar-horsepower rating of these tractors ranged from 7 to 19. The most common size was about 14.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	0.08	4.00	0.32	64	0.20
Purchased seed	Bu.	.08	8.70	.70	36	.25
Fertilizer(4-10-7 & 4-8-6)	Cwt.	2.60	1.95	5.07	97	4.92
Nitrate of soda	Cwt.	1.10	3.25	3.58	62	2.22
Total materials						7.59

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Disking	Acre	1.0	1.90	1.90	10	.19
Total contract work						.19

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area IX-D2, southeastern Alabama and southwestern Georgia, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Cut stalks, mules	2-row	1.0	1.77	3.22	13	0.23	---	0.42
Plow, disk tiller	3-disk	1.0	1.26	1.21	41	.52	0.50	---
Plow, moldboard, mules	9-inch	1.0	5.83	10.60	34	1.98	---	3.60
Plow, moldboard, mule	6-inch	1.0	6.93	6.30	4	.28	---	.25
Disk, tandem	6-foot	1.5	1.05	1.00	46	.73	.69	---
Disk, tandem, contract	6-foot	1.5	1.05	1.00	10	.16	.15	---
Disk, tandem, mules	6-foot	2.0	1.97	7.21	1	.04	---	.14
Bed, mule	---	1.0	3.46	3.15	13	.45	---	.41
Bed, mules	---	1.0	2.34	4.26	3	.07	---	.13
Lay off rows, mule	---	1.0	3.06	2.78	30	.92	---	.83
Lay off rows, mules	---	1.0	1.78	3.24	18	.32	---	.58
Fertilize, spreader, m.	---	1.0	2.31	1.90	59	1.36	---	1.12
Plant, mule	1-row	1.0	2.09	1.88	62	1.30	---	1.17
Plant	2-row	1.0	1.55	1.10	38	.59	.42	---
Cultivate	2-row	2.7	1.05	.97	38	1.08	1.00	---
Cultivate, mule	½-row	3.0	3.39	3.23	53	5.39	---	5.14
Cultivate, mule	1-row	1.5	1.69	1.62	53	1.35	---	1.29
Cultivate, mules	1-row	3.0	2.04	3.88	9	.55	---	1.05
Sidedress by hand	---	1.0	2.42	---	49	1.19	---	---
Total preharvest						18.51	2.76	16.13
Husk by hand & haul, m.	---	1.0	8.81	4.07	84	7.40	---	3.42
Husk by hand & haul	---	1.0	8.81	.75	10	.88	.08	---
Pick by machine	2-row	1.0	1.20	1.10	6	.07	.07	---
Haul from picker	---	1.0	2.20	.75	6	.13	.04	---
Total harvest						8.48	.19	3.42
Total						26.99	2.95	19.55

CORN FOR GRAIN: RESOURCES USED IN PRODUCTION, AREA IX-D3, 1949

The data presented here are based on a survey made in 1950 of 62 farms producing corn for grain in southeastern Virginia and northeastern North Carolina. These farms are located in type-of-farming area IX-D3, a peanut and general farming area in the Northern Coastal Plains portions of Virginia and North Carolina.

The farms surveyed averaged 147 acres. In 1949, 85 acres were in crops, including 29 acres in corn for grain. The average yield was 46 bushels an acre.

Tractors provided an important part of the power used on these farms, although draft animals were used to a varying degree for all operations. The drawbar-horsepower rating of tractors on these farms ranged from 10 to 19; the most common was about 14.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed corn 1/	Bu.	0.15	9.50	1.42	100	1.42
Rye seed	Bu.	1.5	2.10	3.15	23	.72
Fertilizer (3-9-9)	Cwt.	4.40	1.80	7.92	31	2.46
Fertilizer (3-12-6)	Cwt.	5.05	2.00	10.10	74	7.47
Nitrate of soda	Cwt.	2.85	2.95	8.41	90	7.57
Total materials						19.64

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Spraying (2-4-D) 2/	Acre	1.0	2.00	2.00	1	.02
Picking	Acre	1.0	7.00	7.00	3	.21
Total contract work						.23

1/ Approximately 87 percent of the farmers in this area purchased seed corn.

2/ Includes materials.

Man labor, power, and machinery used by operation in producing and harvesting corn for grain, area IX-D3, southeastern Virginia and northeastern North Carolina, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Seed rye by hand	---	1.0	1.10	---	23	0.25	---	---
Cut stalks, mule	1-row	1.0	1.23	2.35	3	.04	---	0.07
Plow, moldboard	2-14 inch	1.0	1.42	1.35	73	1.04	0.99	---
Plow, moldboard, mules	1-12 inch	1.0	4.59	8.74	13	.60	---	1.14
Disk, tandem	6-foot	1.8	.67	.64	98	1.19	1.13	---
Harrow	8-foot	1.3	.43	.41	40	.22	.21	---
Harrow, mule	6-foot	1.4	.78	1.49	16	.17	---	.33
Fertilize	2-row	1.2	1.13	.90	16	.22	.17	---
Fertilize, mule	1-row	1.0	1.50	1.49	16	.24	---	.24
Lay off rows	2-row	1.0	.93	.89	36	.33	.32	---
Lay off rows, mule	1-row	1.0	1.24	1.19	19	.24	---	.23
Plant	2-row	1.0	1.76	.97	70	1.23	.68	---
Plant, mules	1-row	1.0	1.62	2.10	30	.49	---	.63
Weed	2-row	1.8	.54	.52	30	.29	.28	---
Weed, mules	2-row	1.3	.79	1.03	26	.27	---	.35
Middlebust	2-row	1.0	.83	.79	8	.07	.06	---
Middlebust, mule	1-row	1.5	1.43	1.36	14	.30	---	.29
Cultivate 1/	2-row	3.8	1.08	.85	76	3.12	2.45	---
Cultivate, mule	1-row	3.2	1.83	1.74	14	.82	---	.78
Cultivate, mules	2-row	3.0	1.29	2.46	12	.46	---	.89
Sidedress	2-row	1.0	1.23	.79	6	.07	.05	---
Sidedress, mule	1-row	1.1	1.68	1.18	15	.28	---	.20
Sidedress, mule	2-row	1.1	1.43	1.02	13	.20	---	.15
Sidedress by hand	---	1.0	1.30	---	6	.08	---	---
Cultivate, lay by	2-row	1.0	1.36	1.30	8	.11	.10	---
Cultivate, lay by, mules	1-row	1.0	1.70	1.95	6	.10	---	.12
Hoe by hand	---	1.3	1.72	---	84	1.88	---	---
Spray, contract	6-row	1.0	.21	.20	1	---	---	---
Total preharvest						14.31	6.44	5.42
Cut tops by hand and tie	---	1.0	4.35	---	4	.17	---	---
Pick by hand and haul	---	1.0	13.24	2.38	21	2.78	.50	---
Pick by hand & haul, mules	---	1.0	14.83	6.09	31	4.60	---	1.89
Pick by machine	1-row	1.0	2.32	1.52	40	.93	.61	---
Pick by machine	2-row	1.0	.99	.63	5	.05	.03	---
Pick by machine, contract	1-row	1.0	2.32	1.52	3	.07	.05	---
Haul from picker	---	1.0	2.11	.74	48	1.01	.36	---
Glean, mule	---	1.0	5.50	2.25	1	.06	---	.02
Total harvest						9.67	1.55	1.91
Total						23.98	7.99	7.33

1/ Includes some sidedressing while cultivating.

COTTON: RESOURCES USED IN PRODUCTION, AREA VI-H2, 1951

The data presented here are based on a survey made in 1952 of 27 farms producing cotton in south central Tennessee. These farms are located in type-of-farming area VI-H2, a livestock and tobacco farming area of the Highland Rim of Tennessee.

The farms surveyed averaged 137 acres, of which 93 were in crops. In 1951, 8.3 acres were in cotton, and the average yield was 330 pounds an acre.

Draft animals were used for some operations on nearly all of the farms, but tractors were reported on 67 percent of the farms surveyed. The drawbar-horsepower rating of these tractors ranged from 7 to 27; the most common was about 16.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Lb.	35	0.12	4.20	100	4.20
Manure	Ton	3	1/ 2.00	6.00	10	.60
Fertilizer (4-8-8)	Cwt.	3.40	2.10	7.14	22	1.57
Mixed fertilizer	Cwt.	3.15	2.45	7.72	76	5.87
Lime	Ton	2.0	2.50	5.00	3	.15
Dust (toxaphene)	Lb.	145.0	.14	20.30	13	2.64
Spray (toxaphene)	Gal.	2.5	2.70	6.75	4	.27
Total materials						15.30

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Picking	Cwt.	12.4	2.90	35.96	75	26.97
Total contract work						26.97

1/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting cotton, area VI-H2, south central Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	1-ton	1.0	9.77	2.22	7	0.68	0.16	---
Apply manure, horses-sp.	1-ton	1.0	6.47	8.82	3	.19	---	0.26
Spread lime, spreader	6-ton	1.0	1.52	.50	3	.05	.02	---
Plow, moldboard	2-14 inch	1.0	1.20	1.14	14	.17	.16	---
Plow, moldboard, horses	1-12 inch	1.0	4.16	7.68	13	.54	---	1.00
Plow, disk	2-disk	1.0	1.75	1.67	73	1.28	1.22	---
Disk, tandem	7-foot	2.0	.55	.52	75	.82	.78	---
Disk, single, horses	6-foot	1.5	1.91	4.02	12	.34	---	.72
Harrow, spiketooth	8-foot	1.9	.56	.51	75	.80	.73	---
Harrow, spiketooth, h.	8-foot	1.4	1.12	2.13	13	.20	---	.39
Drag, wooden, horses	8-foot	1.0	.95	.87	2	.02	---	.02
Cultipack	7-foot	1.3	.57	.55	44	.33	.32	---
Cultipack, horses	8-foot	1.0	1.26	2.50	3	.04	---	.08
Lay-off rows, horse	1-row	1.0	2.18	2.12	8	.17	---	.17
Plant	2-row	1.0	1.60	.86	63	1.01	.54	---
Plant, horses	2-row	1.0	2.15	2.83	21	.45	---	.59
Plant, horses	1-row	1.0	2.61	3.50	16	.42	---	.56
Hoe by hand	---	1.9	20.16	---	94	36.00	---	---
Cultivate	2-row	3.3	.96	.91	70	2.22	2.10	---
Cultivate, horses	1-row	3.1	2.16	3.56	39	2.61	---	4.31
Dust	2-row	3.0	.55	.40	13	.21	.16	---
Spray	2-row	4.0	.48	.23	2	.04	.02	---
Spray by hand	3-gal.	2.0	10.00	---	2	.40	---	---
Total preharvest						48.99	6.21	8.10
Pick by hand	---	2.2	41.08	---	25	22.60	---	---
Pick by hand, contract	---	2.2	41.08	---	75	67.78	---	---
Haul to gin	---	2.2	1.80	1.23	14	.55	.38	---
Haul to gin, truck	---	2.2	2.77	1.47	74	4.51	---	---
Haul to gin, horses	---	2.2	5.90	5.74	12	1.56	---	1.52
Total harvest						97.00	.38	1.52
Total 1/						145.99	6.59	9.62

1/ In addition, truck use averaged 2.39 hours an acre.

COTTON: RESOURCES USED IN PRODUCTION, AREA VII-A7, 1947

The data presented here are based on a survey made in 1948 of 241 farms producing cotton. These farms are located in type-of-farming area VII-A7, a specialized cotton area of the southern Piedmont in North Carolina, South Carolina, Georgia, and Alabama.

The farms surveyed averaged 215 acres. In 1947, 90 acres were in crops, including 30 acres in cotton. The average yield was 281 pounds of lint an acre.

Draft animals provided much of the power used for producing cotton on the farms surveyed. Where tractors were used, the drawbar-horsepower ranged from 9 to 34; the most common was about 13.

Materials used and contract work hired, 1947

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Lb.	33	0.05	1.65	73	1.20
Purchased seed	Lb.	33	.09	2.97	27	.80
Fertilizer(4-8-6 or 5-10-5)	Cwt.	4.75	1.80	8.55	100	8.55
Nitrate fertilizer	Cwt.	1.15	2.50	2.88	57	1.64
Calcium arsenate	Lb.	13.5	.12	1.62	57	.92
Benzene hexochloride	Lb.	6.0	.26	1.56	13	.20
Total materials						13.31

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Dusting	Acre	1.0	.35	.35	24	.08
Picking	Cwt.	7.55	2.30	17.36	22	3.82
Hauling	Bale	.6	1.40	.84	35	.29
Total contract work						4.19

Man labor, power, and machinery used by operation in producing and harvesting cotton, area VII-A7, south central North Carolina, northwest South Carolina, north central Georgia and east central Alabama, 1947

Operation	Size of equipment	Times over	Time per acre once over: Man	Time per acre once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Cut stalks, horses	1-row	1.0	1.40	2.80	34	0.48	---	0.95
Cut stalks, drag, horses	---	1.0	.90	1.80	8	.07	---	.14
Cut stalks by hand	---	1.0	3.00	---	5	.15	---	---
Plow, disk	2-14 inch	1.0	1.30	1.30	10	.13	0.13	---
Plow, disk tiller	---	1.0	.80	.80	17	.14	.14	---
Plow, horse	---	1.0	8.00	8.00	8	.64	---	.64
Plow, horses	---	1.0	4.40	8.80	29	1.28	---	2.55
Harrow	6-foot	1.0	.80	.80	15	.12	.12	---
Harrow, spiketooth	6-foot	1.0	.40	.40	7	.03	.03	---
Harrow, spiketooth, h.	3-foot	1.1	1.70	1.70	21	.39	---	.39
Harrow, spiketooth, h.	6-foot	1.1	1.00	2.00	47	.52	---	1.03
Bed, middlebuster, h.	---	1.0	2.20	4.40	29	.64	---	1.28
Plow, horses	½-row	1.0	8.20	12.00	26	2.13	---	3.12
Lay off rows, horse	---	1.0	2.10	2.10	9	.19	---	.19
Fertilize, horse	1-row	1.0	3.50	2.20	33	1.16	---	.73
Plant, horse	1-row	1.0	2.40	2.10	91	2.18	---	1.91
Plant and fertilize	1-row	1.0	1.80	.90	4	.07	.04	---
Plant and fertilize	2-row	1.0	1.20	.60	5	.06	.03	---
Cultivate	2-row	5.6	.70	.70	8	.31	.31	---
Cultivate, horse	½-row	5.5	3.80	3.80	87	18.18	---	18.18
Cultivate, horse	1-row	3.0	2.00	2.00	53	3.18	---	3.18
Cultivate, horses	1-row	3.0	1.80	3.60	16	.86	---	1.73
Fertilize by hand	---	1.0	1.80	---	22	.40	---	---
Fertilize, mule	1-row	1.0	2.00	2.00	32	.64	---	.64
Chop and hoe by hand	---	2.0	10.10	---	100	20.20	---	---
Dust 1/	6-row	3.6	.20	.20	26	.19	.19	---
Dust, mop	---	2.0	3.00	---	19	1.14	---	---
Dust by hand	---	2.2	1.50	---	24	.79	---	---
Dust, horse	2-row	5.0	.60	.60	7	.21	---	---
Total preharvest						56.48	.99	36.66
Pick by hand	---	2/	---	---	100	1/52.80	---	---
Haul	---	1.0	3.30	2.50	6	.20	.15	---
Haul, horses	---	1.0	4.00	8.00	31	1.24	---	2.48
Haul, truck	---	1.0	2.00	1.50	28	.56	---	---
Haul, truck, contract	---	1.0	2.00	1.50	35	.70	---	---
Total harvest						55.50	.15	2.48
Total 3/						111.98	1.14	39.14

1/ Includes contract labor. 2/ Not available. 3/ In addition, truck use averaged 0.94 hour an acre.

COTTON: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 34 farms producing cotton in west central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area in the Arkansas River valleys and uplands.

The farms surveyed averaged 335 acres, of which 249 were in crops. In 1951, 76 acres were in cotton, and the average yield was 405 pounds an acre.

Tractors provided most of the power used on these farms, although horses were used for some operations. The drawbar-horsepower rating of these tractors ranged from 10 to 29; the most common was about 20.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Lb.	25	0.07	1.75	100	1.75
Vetch seed	Lb.	60	.17	10.20	29	2.96
Manure	Ton	4	1/ 2.00	8.00	2	.16
Mixed fertilizer (3-9-18)	Cwt.	2.75	2.90	7.98	77	6.14
Nitrate fertilizer(33-0-0)	Cwt.	1.00	4.00	4.00	14	.56
Dust or spray (3-5-40)	Lb.	93.0	15	13.95	88	12.28
Spray (aldren)	Gal.	.6	6.35	3.81	33	1.26
Defoliant	Lb.	23.5	.06	1.41	3	.04
Total materials						25.15

CONTRACT WORK HIRED

Dusting, plane	Acre	2/8.4	.50	4.20	54	2.27
Spraying	Acre	2/3.0	.50	1.50	5	.08
Defoliating	Acre	1.0	.70	.70	3	.02
Picking, hand	Cwt.	11.5	3.80	43.70	99	43.26
Total contract work						45.63

1/ Estimated.

2/ Average number of times over.

Man labor, power, and machinery used by operation in producing and harvesting cotton, area VII-H2, west central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre once over: Man	Time per acre once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	1-ton	1.0	9.16	4.16	2	0.18	0.08	---
Cut stalks	2-row	1.0	.25	.24	45	.11	.11	---
Disk, tandem	6-foot	1.9	.58	.56	29	.32	.31	---
Plow, moldboard	2-14 inch	1.0	1.19	1.13	76	.90	.86	---
Plow, moldboard, horses	1-12 inch	1.0	4.40	8.56	2	.09	---	0.17
Plow, disk	2-disk	1.0	1.61	1.53	7	.11	.11	---
Disk, tandem	6-foot	2.2	.67	.64	90	1.32	1.27	---
List	2-row	1.3	.52	.49	28	.19	.18	---
List	3-row	2.0	.36	.35	23	.17	.16	---
List, horses	1-row	1.0	2.13	4.15	5	.11	---	.21
Harrow, spiketooth	10-foot	1.7	.44	.40	82	.62	.56	---
Harrow, spiketooth, horses	8-foot	1.8	.95	1.83	3	.05	---	.10
Fertilize, distributor	2-row	1.0	.76	.54	11	.08	.06	---
Fertilize, distributor, h.	2-row	1.0	.70	1.31	18	.13	---	.24
Fertilize, distributor, h.	1-row	1.0	3.07	4.39	2	.06	---	.09
Plant	2-row	1.0	.89	.58	17	.15	.10	---
Plant	4-row	1.0	.48	.27	70	.34	.19	---
Plant, horses	2-row	1.0	1.37	1.74	10	.14	---	.17
Plant, horse	1-row	1.0	2.13	1.69	3	.06	---	.05
Cultivate	2-row	6.4	.55	.52	28	.99	.93	---
Cultivate	4-row	8.0	.36	.35	59	1.70	1.65	---
Cultivate, horses	1-row	6.1	1.73	3.36	4	.42	---	.82
Sidedress	2-row	1.0	.62	.34	5	.03	.02	---
Sidedress, horses	2-row	1.0	1.58	1.95	4	.06	---	.08
Chop by hand	---	2.5	16.17	---	89	35.97	---	---
Dust	6-row	8.0	.34	.23	54	1.47	.99	---
Dust, plane, contract	---	8.4	.08	.02	54	.36	.09	---
Spray	6-row	6.4	.28	.22	38	.68	.54	---
Spray, plane, contract	---	3.0	---	---	5	----	---	---
Defoliate, plane, contract	---	1.0	---	---	3	---	---	---
Total preharvest						46.81	8.21	1.93
Pick by machine	1-row	2.6	2.09	1.84	1	.05	.05	---
Pick by hand, contract	---	2.6	27.24	---	99	70.11	---	---
Load, haul to gin	---	2.6	1.08	.68	46	1.29	.81	---
Load, haul to gin, truck	---	2.6	.58	.50	51	.77	---	---
Load, haul to gin, horses	---	2.6	2.58	5.03	3	.20	---	.39
Total harvest						72.42	.86	.39
Total 1/						119.23	9.07	2.32

1/ In addition, truck use averaged 0.66 hour an acre.

COTTON: RESOURCES USED IN PRODUCTION, AREA VIII-C1, 1951

The data presented here are based on a survey made in 1952 of 20 farms producing cotton in northwestern Tennessee. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area of the Pennyroyal-Purchase.

The farms surveyed averaged 143 acres. In 1951, 80 acres were in crops, including 15 in cotton, and the average yield of cotton on these farms was 315 pounds an acre.

Tractors provided most of the power used on the farms in this area, although horses were used for some operations such as planting and cultivating. The drawbar-horsepower rating of these tractors ranged from 13 to 27; the most common was about 16.

Materials used and contract work hired, 1951 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Lb.	21.0	0.12	2.52	2/108	2.72
Mixed fertilizer (4-8-8)	Cwt.	2.25	2.15	4.84	42	2.03
Mixed fertilizer (6-12-12)	Cwt.	2.85	2.80	7.98	35	2.79
Mixed fertilizer 3/	Cwt.	2.55	2.70	6.88	22	1.51
Total materials						9.05

1/ No contract work was reported on the farms surveyed.
2/ Approximately 8 percent of acreage replanted.
3/ Mostly 3-9-18 and 5-10-5.

Man labor, power, and machinery used by operation in producing and harvesting cotton, area VIII-C1, northwestern Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Disk, tandem	6-foot	1.1	0.59	0.57	33	0.21	0.21	---
Plow, moldboard	2-14 inch	1.0	1.41	1.34	96	1.35	1.29	---
Plow, moldboard, horses	1-12 inch	1.0	4.72	9.18	4	.19	---	0.37
Disk, tandem	7-foot	1.9	.54	.51	96	.99	.93	---
Disk, single, horses	6-foot	1.3	1.61	1.54	4	.08	---	.20
List	2-row	1.0	1.10	1.05	13	.14	.14	---
Harrow, spiketooth	8-foot	1.2	.37	.34	93	.41	.38	---
Harrow, spiketooth, h.	7-foot	3.0	.92	1.76	7	.19	---	.37
Roll	8-foot	1.0	.28	.28	15	.04	.04	---
Plant	2-row	1.0	1.04	.56	50	.52	.28	---
Plant, horses	2-row	1.0	1.61	2.05	46	.74	---	.94
Plant, horse	1-row	1.0	2.66	2.54	4	.11	---	.10
Replant, horses	2-row	1.0	1.34	1.34	8	.11	---	.11
Cultivate, first	2-row	1.0	.70	.67	72	.50	.48	---
Cultivate, first, horses	1-row	1.0	1.78	3.47	28	.50	---	.97
Cultivate, other	2-row	4.1	.57	.55	77	1.80	1.74	---
Cultivate, other, horses	1-row	3.4	1.75	3.40	23	1.37	---	2.66
Hoe by hand	---	1.7	14.40	---	100	24.48	---	---
Total preharvest						33.73	5.49	5.72
Pick by hand	---	2.6	21.55	---	100	56.03	---	---
Haul to gin	---	2.6	.96	.70	22	.55	.40	---
Haul to gin, truck	1½ ton	2.6	1.90	1.07	73	3.61	---	---
Haul to gin, horses	---	2.6	2.80	3.21	5	.36	---	.42
Total harvest						60.55	.40	.42
Total 1/						94.28	5.89	6.14

1/ In addition, truck use averaged 2.03 hours an acre.

CRIMSON CLOVER SEED: RESOURCES USED IN PRODUCTION, AREA VI-H2, 1951

The data presented here are based on a survey made in 1952 of 26 farms producing crimson clover seed in south central Tennessee. These farms are located in type-of-farming area VI-H2, a livestock and tobacco farming area of the Highland Rim of Tennessee.

The farms surveyed averaged 262 acres, of which 155 were in crops. In 1951, 20 acres of crimson clover seed were harvested, and the average yield was 216 pounds an acre.

Tractors provided most of the power used on these farms. They were used for operations listed below unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 7 to 32; the most common was about 19.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Lb.	21	0.29	6.09	100	6.09
Mixed fertilizer(8-12-12)	Cwt.	3.40	2.25	7.65	9	.69
Mixed fertilizer	Cwt.	1.15	1.95	2.24	21	.47
Slag	Ton	.3	7.70	2.31	28	.62
Lime	Ton	2.0	2.65	5.30	26	1.38
Sacks	No.	1.6	.65	1.04	31	.32
Total materials						9.57

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Combining	Bu.	2/ .9	12.12	10.90	32	3.49
Combining	Bu.	3.6	1.90	6.84	13	.89
Cleaning	Cwt.	2.15	.50	1.08	56	.60
Total contract work						4.98

1/ Approximately 32 percent of the farmers in this area purchased clover seed.

2/ These contract operators received one-fourth of the crop as payment for combining. The season average market price for Tennessee was $12.12 per bushel.

Man labor, power, and machinery used by operation in producing and harvesting crimson clover seed, area VI-H2, south central Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms	
			Man	Power		Man	Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Spread slag, spreader	90-bu.	1.0	0.61	0.40	21	0.13	0.08
Plow, disk	2-disk	1.0	1.38	1.31	98	1.35	1.28
Disk, tandem	7-foot	2.3	.41	.39	41	.39	.37
Disk & cultipack	7-foot	2.7	.49	.47	36	.48	.46
Disk & harrow, spiketooth	8-foot	1.9	.53	.48	22	.22	.20
Harrow, spiketooth	8-foot	1.8	.43	.33	36	.28	.21
Seed, drill	7-foot	1.0	.76	.46	88	.67	.40
Seed, cyclone seeder	---	1.0	.82	---	12	.10	---
Total preharvest						3.62	3.00
Combine	5-foot	1.0	3.73	1.51	55	2.05	.83
Combine, contract	5-foot	1.0	2.08	.88	45	.94	.40
Haul from combine	---	1.0	.51	.28	44	.22	.12
Haul to cleaner, truck	---	1.0	.73	.35	56	.41	---
Clean, contract	---	1.0	.19	.18	56	.11	.10
Total harvest						3.73	1.45
Total 1/						7.35	4.45

1/ In addition, truck use averaged 0.20 hour an acre.

LESPEDEZA HAY: RESOURCES USED IN PRODUCTION, AREA VI-J1, 1949

The data presented here are based on a survey made in 1950 of 41 farms producing lespedeza hay. These farms are located in type-of-farming area VI-J1, a livestock and dairy area in the central basin of Tennessee.

Nearly all of the lespedeza in this area is seeded with a nurse crop. As a result, half of the man labor, power, and machinery used for preplanting field operations is jointly charged to the nurse crop and the hay crop.

The farms surveyed averaged 190 acres, of which 123 acres were in crops. In 1949, 28 acres were in lespedeza hay and the average yield was 1.2 tons an acre.

Draft animals provided an important part of the power used on these farms. The drawbar-horsepower rating of tractors on these farms ranged from 7 to 25; the most common was about 15.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Purchased seed	Lb.	25	0.08	2.00	100	2.00
Manure	Ton	2	1/2.00	4.00	5	.20
Mixed fertilizer	Cwt.	1.50	2.10	3.15	7	.22
Limestone	Ton	1.7	2.40	4.08	7	.29
Baler twine	Lb.	4.0	.25	1.00	36	.36
Total materials						3.07

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Baling	Ton	1.2	2/4.75	5.70	20	1.14
Total contract work						1.14

1/ Estimated.
2/ Includes cost of baler twine.

Man labor, power and, machinery used by operation in producing and harvesting lespedeza hay, area VI-J1, central Tennessee, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Establish seeding:								
Total lespedeza 1/	---	---	---	---	---	1.60	1.02	1.28
Apply manure, m.& wagon	---	1.0	4.78	4.58	5	.24	---	.23
Seed by hand	---	1.0	.69	---	100	.69	---	---
Clip weeds	7-foot	1.0	.60	.55	4	.02	.02	---
Clip weeds, mules	---	1.0	1.47	2.82	11	.16	---	.31
Total preharvest						2.71	1.04	1.82
Mow	7-foot	1.0	.58	.53	47	.27	.25	---
Mow, mules	4-foot	1.0	1.41	2.70	53	.75	---	1.43
Rake, side-delivery	8-foot	1.0	.47	.45	56	.26	.25	---
Rake, dump	8-foot	1.0	.70	1.34	44	.31	---	.59
Shock	---	1.0	2.08	---	44	.92	---	---
Haul loose hay, mules	---	1.0	6.05	5.42	44	2.66	---	2.38
Bale	---	1.0	1.30	.59	36	.47	.21	---
Bale, contract	---	1.0	1.30	.59	20	.26	.12	---
Haul baled hay	---	1.0	4.00	1.24	42	.88	.52	---
Haul baled hay, mules	---	1.0	5.01	3.50	14	.70	---	.49
Total harvest						7.48	1.35	4.89
Total						10.19	2.39	6.71

1/ In this area nearly all of the farms seeded lespedeza with a nurse crop. As a result, the total given here is half of the preplanting field work required jointly to establish the seeding and the nurse crop.

LESPEDEZA HAY: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 29 farms producing lespedeza hay in west central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area in the Arkansas River valleys and uplands.

The farms surveyed averaged 907 acres, of which 573 were in crops. In 1951, 66 acres were in lespedeza hay, and the average yield was 1.7 tons an acre. Contrary to the usual practice in many areas, lespedeza hay in this area was not sown with a nurse crop.

Tractors provided most of the power used on the farms in this area, although horses were used for some operations. The drawbar-horsepower rating of the tractors ranged from 10 to 34; the most common was about 20.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Lb.	31	0.14	4.34	100	4.34
Mixed fertilizer (5-10-5)	Cwt.	3.00	2.35	7.05	2	.14
Potash fertilizer(0-0-50)	Cwt.	.95	2.30	2.18	3	.07
Superphosphate (0-20-0)	Cwt.	2.25	1.80	4.05	33	1.34
Lime	Ton	1.0	4.60	4.60	11	.50
Twine, baler	Lb.	8.0	.33	2.64	81	2.14
Total materials						8.53

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Baling	Bale	56.7	1/ 0.15	8.50	14	1.19
Total contract work						1.19

1/ Includes cost of baler twine.

Man labor, power, and machinery used by operation in producing and harvesting lespedeza hay, area VII-H2, west central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms	
			Man	Power		Man	Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Spread lime, spreader	90-bu.	1.0	0.22	0.22	11	0.02	0.02
Plow, moldboard	2-14 inch	1.0	1.41	1.34	11	.16	.15
Plow, disk	2-disk	1.0	1.70	1.63	2	.03	.03
Disk, tandem	7-foot	2.1	.56	.54	75	.88	.85
Disk and harrow	8-foot	2.0	.67	.61	18	.24	.22
Harrow, spiketooth	8-foot	1.3	.37	.34	67	.32	.29
Fertilize, spreader	75-bu.	1.4	.56	.37	38	.30	.20
Seed, drill	10-foot	1.0	.37	.34	64	.24	.22
Seed, endgate	---	1.0	.30	.18	23	.07	.04
Seed by hand	---	1.0	.72	---	13	.09	---
Clip weeds, mower	7-foot	1.5	.46	.44	49	.34	.32
Total preharvest						2.69	2.34
Mow	7-foot	1.0	.63	.58	98	.62	.57
Mow, horses	5-foot	1.0	1.15	2.14	2	.02	---
Rake, side-delivery	9-foot	1.0	.37	.36	95	.35	.34
Rake, dump, horses	8-foot	1.0	.62	1.20	5	.03	---
Bale	---	1.0	1.06	.69	81	.86	.56
Bale, contract	---	1.0	1.34	.73	14	.19	.10
Haul bales	---	1.0	2.60	.68	5	.13	.03
Haul bales, truck	---	1.0	3.96	.66	90	3.56	---
Haul loose hay	---	1.0	6.25	.94	2	.12	.02
Haul loose hay, horses	---	1.0	5.00	3.20	3	.15	---
Total harvest						6.03	1.62
Total 1/						8.72	3.96

1/ In addition, truck use averaged 0.59 hour an acre and horse work 0.20 hour an acre.

LESPEDEZA HAY: RESOURCES USED IN PRODUCTION, AREA VIII-C1, 1951

The data presented here are based on a survey made in 1952 of 26 farms producing lespedeza hay in northwestern Tennessee. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area of the Pennyroyal-Purchase.

Nearly all of the lespedeza in this area is seeded with a nurse crop. As a result, half of the man labor, power, and machinery used jointly for preplanting field operations is charged to the nurse crop and half to the hay crop.

The farms surveyed averaged 146 acres, of which 108 acres were in crops. In 1951, 28 acres were in lespedeza hay, and the average yield was 2.3 tons an acre.

Tractors provided most of the power used on these farms, although horses were used for some operations. The drawbar-horsepower rating of these tractors ranged from 7 to 27; the most common was about 18.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Lespedeza seed 1/	Lb.	32	0.12	3.84	100	3.84
Manure	Ton	6	2/2.00	12.00	4	3/ .24
Lime	Ton	1.5	2.60	3.90	6	.23
Baler twine	Lb.	2/10.8	2/ .33	3.56	22	.78
Total materials						5.09

CONTRACT WORK HIRED

Mowing	Acre	1.0	2.00	2.00	7	.14
Baling	No.	76.7	4/ .16	12.27	68	8.34
Total contract work						8.48

1/ Approximately 24 percent of the farmers in this area purchased seed.
2/ Estimated.
3/ One-half of the cost allocated to nurse crop.
4/ Includes cost of baler twine.

Man labor, power, and machinery used by operation in producing and harvesting lespedeza hay, area VIII-C1, northwestern Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over Man	Time per acre: once over Power	Acreage covered	Average time per acre - all farms Man	Average time per acre - all farms Tractor	Average time per acre - all farms Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Establish seeding:								
One-half of joint operation 1/	---	---	---	---	---	1.74	1.48	0.10
Seed by hand	---	1.0	0.81	---	100	81	---	---
Clip weeds	6-foot	1.0	.53	.50	80	42	.40	---
Total preharvest						2.97	1.88	.10
Mow	6-foot	1.2	.76	.69	89	.81	.74	---
Mow, contract	---	1.2	1.00	.91	7	.08	.08	---
Mow, horses	4-foot	1.2	1.38	2.57	4	.07	---	.12
Rake, side-delivery	9-foot	1.2	.50	.47	90	.54	.50	---
Rake, dump, horses	8-foot	1.2	.55	1.07	10	.07	---	.13
Bale	---	1.2	1.91	.67	22	.50	.17	---
Bale, contract	---	1.2	1.91	.67	68	1.56	.54	---
Haul bales	---	1.2	1.21	.51	58	.84	.35	---
Haul bales, truck	---	1.2	1.36	.55	30	.49	---	---
Haul bales, horses	---	1.2	1.13	1.12	2	.03	---	.03
Haul loose hay, horses	---	1.2	5.25	1.97	10	.63	---	.24
Total harvest						5.62	2.38	.52
Total						8.59	4.26	.62

1/ Nearly all of the farmers in this area seeded lespedeza with wheat. As a result, half of the field work required jointly for seed bed preparation is charged to the lespedeza.

OATS: RESOURCES USED IN PRODUCTION, AREA IV-F3, 1949

The data presented here are based on a 1950 survey of 34 farms producing oats in type-of-farming area IV-F3, northern Piedmont. This dairy and general farming area comprises parts of Pennsylvania, Maryland, Virginia and Delaware. Information on oats was obtained in the first two of these States where most of the oats are grown.

The farms surveyed averaged 150 total acres of which 116 were in crops, including 11 acres in oats. In 1949, the average yield of oats in this area was 29 bushels an acre.

Tractors provided most of the power used on these farms; they were used for operations listed in the following tables unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 13 to 28; the most common was about 18.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	2.3	2.10	4.83	100	4.83
Manure	Ton	8	2/ 2.00	16.00	14	2.24
Fertilizer (3-12-6)	Cwt.	3.30	2.00	6.60	97	6.40
Limestone	Ton	1.3	6.30	.82	7	.06
Weed spray	Gal.	.4	8.00	3.20	2	.06
Twine	Lb.	2.5	.25	.62	12	.07
Total materials						13.66
CONTRACT WORK HIRED						
Drilling	Acre	1.0	1.25	1.25	5	.06
Combining	Acre	1.0	5.60	5.60	27	1.51
Threshing	Bu.	29	.08	2.32	4	.09
Total contract work						1.66

1/ Approximately 92 percent of the farmers in this area purchased seed oats.

2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting oats, area IV-F3, northern Piedmont, 1949

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms	
			Man	Power		Man	Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Apply manure, spreader	75-bu.	1.0	4.07	2.04	14	0.57	0.29
Plow, moldboard	3-14 inch	1.0	1.03	.99	15	.15	.15
Plow, moldboard	2-14 inch	1.0	1.65	1.58	59	.97	.93
Disk, tandem	7-foot	2.8	.55	.52	97	1.49	1.42
Harrow, spiketooth	15-foot	2.1	.44	.42	40	.37	.35
Seed, drill	8-foot	1.0	.77	.49	76	.59	.37
Seed, drill (contract)	8-foot	1.0	.77	.49	5	.04	.02
Seed, drill, horses	8-foot	1.0	1.10	2.10	19	.21	---
Total preharvest						4.39	3.53
Combine	6-foot	1.0	1.66	.84	61	1.01	.51
Combine (contract)	6-foot	1.0	1.66	.84	27	.45	.23
Haul from combine	1½-ton	1.0	.50	.25	38	.19	.10
Haul from combine, t.	1½-ton	1.0	.50	.25	50	.25	---
Bind	8-foot	1.0	1.38	.71	12	.17	.09
Shock by hand	---	1.0	1.10	---	12	.13	---
Haul bundles	---	1.0	3.50	.63	6	.21	.04
Haul bundles, truck	1½-ton	1.0	3.50	.63	5	.18	---
Haul bundles, horses	---	1.0	3.50	3.30	1	.04	---
Thresh	28-inch	1.0	.74	.35	8	.06	.03
Thresh (contract)	28-inch	1.0	.74	.35	4	.03	.01
Total harvest						2.72	1.01
Total 1/						7.11	4.54

1/ In addition, horse work averaged 0.43 hour an acre and truck work averaged 0.15 hour an acre.

OATS: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 24 farms producing oats in west central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area of the Arkansas River valleys and uplands.

The farms surveyed averaged 993 acres, of which 686 were in crops. In 1951, 63 acres were in oats, and the average yield was 29 bushels an acre.

Tractors provided most of the power used on farms in this area; they were used for operations listed below unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 10 to 27; the most common was about 23.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	2.1	1.50	3.15	100	3.15
Mixed fertilizer	Cwt.	1.65	2.40	3.96	3	.12
Nitrate fertilizer(32-0-0)	Cwt.	1.20	3.70	4.44	25	1.11
Nitrate fertilizer(16-0-0)	Cwt.	2.00	3.45	6.90	14	.97
Sacks	No.	8	.26	2.08	44	.92
Total materials						6.27

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Combining, self-propelled	Acre	1.0	4.00	4.00	13	.52
Total contract work						.52

1/ Approximately 78 percent of the farmers in this area purchased seed for planting.

Man labor, power, and machinery used by operation in producing and harvesting oats, area VII-H2, west central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Plow, moldboard	2-14 inch	1.0	1.23	1.18	20	0.25	0.24
Plow, disk	2-disk	1.0	1.50	1.43	31	.46	.44
Disk, tandem	7-foot	2.2	.52	.49	75	.86	.81
Disk and harrow	7-foot	2.3	.61	.56	22	.31	.28
Harrow, spiketooth	12-foot	1.3	.31	.28	48	.19	.17
Fertilize, spreader	12-foot	1.0	.53	.30	13	.07	.04
Topdress, spreader	10-foot	1.0	.51	.30	24	.12	.07
Seed, drill	10-foot	1.0	.39	.36	90	.35	.32
Seed, drill, horses	6-foot	1.0	1.38	2.57	10	.14	---
Total preharvest						2.75	2.37
Combine	6-foot	1.0	2.62	1.16	55	1.44	.64
Combine, self-propelled	12-foot	1.0	1.64	.80	32	.52	---
Combine, s.p., contract	12-foot	1.0	1.64	.80	13	.21	---
Haul grain	---	1.0	.70	.39	38	.27	.15
Haul grain, truck	---	1.0	.86	.54	62	.53	---
Total harvest						2.97	.79
Total 1/						5.72	3.16

1/ In addition, truck use averaged 0.33 hour an acre, horse work 0.26 hour an acre, and self-propelled combines 0.36 hour an acre.

OATS: RESOURCES USED IN PRODUCTION, AREA IX-D2, 1949

The data presented here are based on a survey made in 1950 of 42 farms that produced oats in 1949. These farms are located in type-of-farming area IX-D2, a peanut and general farming area in the Coastal Plains of southern Alabama and Georgia.

In the area oats were produced on the larger farms, which averaged 811 acres. Cropland averaged 473 acres per farm. The acreage of oats in 1949 averaged 60 acres per farm. The yield of oats was not obtained in the survey, but the 1950 Census of Agriculture shows that the average yield was 30 bushels an acre in 1949 in the counties in which the survey farms were located.

Tractors and trucks provided all of the power used in producing oats on these farms. The drawbar-horsepower rating of the tractors ranged from 13 to 32; the average size of tractor used was about 19.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	2.6	1.75	4.55	97	4.41
Purchased seed	Bu.	2.6	4.25	11.05	3	.33
Fertilizer(4-8-6 or 4-10-7)	Cwt.	2.70	2.00	5.40	93	5.02
Nitrate fertilizer	Cwt.	1.55	3.20	4.96	97	4.81
Total materials						14.57

1/ No contract work was reported in this area.

Man labor, power, and machinery used by operation in producing and harvesting oats, area IX-D2, southeastern Alabama and southwestern Georgia, 1949

Operation	Size of equipment	Times over	Time per acre once over: Man	Time per acre once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Plow, disk tiller	4-foot	1.0	0.87	.83	83	0.72	0.69
Disk, tandem	8-foot	1.5	.61	.58	93	.86	.81
Harrow, spiketooth	10-foot	1.0	.38	.35	90	.34	.32
Fertilize, spreader	10-foot	1.0	.80	.74	35	.28	.26
Seed, drill	10-foot	1.0	.70	.64	42	.29	.27
Seed & fertilize, drill	10-foot	1.0	1.26	.60	58	.73	.35
Topdress, endgate	---	1.0	.48	.22	41	.20	.09
Topdress, spreader	10-foot	1.0	.98	.51	50	.49	.26
Topdress by hand	---	1.0	2.40	---	6	.14	---
Total preharvest						4.05	3.05
Combine and sack	6-foot	1.0	1.92	.84	100	1.92	.84
Haul grain, truck	---	1.0	1.45	.46	100	1.45	---
Total harvest						3.37	.84
Total 1/						7.42	3.89

1/ In addition, truck use averaged 0.46 hour an acre.

PEANUTS: RESOURCES USED IN PRODUCTION, AREA VII-A8, 1949

The data presented here are based on a 1950 survey of 38 farms producing peanuts in central Alabama and central South Carolina. These farms are located in type-of-farming area VII-A8, a specialized cotton area of the Upper Coastal Plains.

The farms surveyed averaged 405 acres per farm. In 1949, 20 acres were in peanuts. According to the 1950 census data for the counties included in the survey, the average yield of peanuts in 1949 was 572 pounds an acre.

Tractors were reported on 58 percent of the farms surveyed, although draft animals were used for some operations on these farms. The drawbar-horsepower rating of the tractors ranged from 13 to 26; the most common was about 19.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Lb.	35.5	0.20	7.10	100	7.10
Mixed fertilizer(4-10-6)	Cwt.	3.10	1.95	6.04	100	6.04
Land plaster	Ton	.2	16.00	3.20	18	.58
Lime	Ton	.1	17.60	.18	21	.04
Dust (copper sulphate)	Lb.	20.3	.09	1.83	51	.93
Dust (5% DDT)	Lb.	8.8	.11	.97	27	.26
Total materials						14.95

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Threshing	Ton	1/ 0.3	23.00	6.90	57	3.93
Total contract work						3.93

1/ Yield from the 1950 census data for the counties included in the survey.

Man labor, power, and machinery used by operation in producing and harvesting peanuts, area VII-A8, central Alabama and central South Carolina, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Plow, moldboard	2-14 inch	1.0	1.51	1.44	14	0.21	0.20	---
Plow, moldboard, mules	1-12 inch	1.0	6.44	9.39	8	.52	---	0.75
Plow, disk	5-disk	1.0	.95	.90	78	.74	.70	---
Disk, tandem	5-foot	1.4	.84	.80	57	.67	.64	---
Harrow, spiketooth	8-foot	1.4	.48	.44	28	.18	.17	---
Harrow, spiketooth, mule	6-foot	1.6	1.15	1.43	12	.22	---	.27
Lay-off rows	2-row	1.0	1.62	1.03	15	.24	.15	---
Lay-off rows, mule	1-row	1.1	3.17	3.08	5	.17	---	.17
Lay-off rows, mules	2-row	1.0	1.47	1.86	9	.13	---	.17
Fertilize, hand	---	1.0	.99	---	3	.03	---	---
Fertilize, mule	1-row	1.0	2.69	2.09	19	.51	---	.40
Plant	2-row	1.0	1.99	1.01	78	1.55	.79	---
Plant, mule	1-row	1.0	2.20	1.86	18	.40	---	.33
Plant, mules	2-row	1.0	1.14	2.12	3	.03	---	.06
Plant by hand	---	1.0	12.33	---	1	.12	---	---
Weed	8-foot	3.5	.58	.56	72	1.46	1.41	---
Weed, mule	6-foot	2.8	1.74	1.69	45	2.19	---	2.13
Hoe by hand	---	1.4	13.17	---	66	12.17	---	---
Cultivate	2-row	3.0	.98	.85	64	1.88	1.63	---
Cultivate, mule	1-row	2.6	2.26	2.19	28	1.65	---	1.59
Dust	2-row	2.6	.91	.84	26	.62	.57	---
Dust, mule	2-row	3.0	1.00	.95	10	.30	---	.28
Total preharvest						25.99	6.26	6.15
Dig	2-row	1.0	1.13	1.03	80	.90	.82	---
Dig, mule	1-row	1.0	2.36	2.26	20	.47	---	.45
Stack by hand	---	1.0	11.29	---	100	11.29	---	---
Haul to thresher	---	1.0	3.49	1.01	100	3.49	1.01	---
Thresh	---	1.0	9.49	1.52	43	4.08	.65	---
Thresh, contract	---	1.0	8.55	1.25	57	4.87	.71	---
Total harvest						25.10	3.19	.45
Total						51.09	9.45	6.60

PEANUTS: RESOURCES USED IN PRODUCTION, AREA IX-D2, 1949

The data presented here are based on a survey made in 1950 of 58 farms that produced peanuts in 1949. These farms are located in type-of-farming area IX-D2, a peanut and general farming area in the coastal plains of southern Alabama and Georgia.

The farms surveyed averaged 172 acres. In 1949, about 87 acres were in crops, including 30 acres of peanuts. The acreage of peanuts harvested averaged 27 acres per farm and the average yield was 878 pounds per harvested acre.

Tractors provided some of the power used in producing peanuts on about half of the farms surveyed. The drawbar-horsepower rating of tractors on these farms ranged from 10 to 27; the most common was about 14.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Lb.	34	0.21	7.14	100	7.14
Seed treating	Lb.	34	.01	.34	27	.09
Fertilizer (4-8-6 or 4-10-7)	Cwt.	3.30	2.05	6.76	97	6.56
Dust (2% DDT & sulphur)	Lb.	36	.05	1.80	59	1.06
Nails	Lb.	1	.10	.10	100	.10
Total materials						14.95

CONTRACT WORK HIRED

Picking and hauling 2/	Ton	0.44	25.00	11.00	100	11.00
Total contract work						11.00

1/ Approximately 50 percent of the farmers in this area purchased seed peanuts. 2/ Includes labor of 3 to 8 men furnished by the custom operator.

Man labor, power, and machinery used by operation in producing and harvesting peanuts, area IX-D2, southeastern Alabama and southwestern Georgia, 1949

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Plow, disk tiller	---	1.0	1.48	1.42	54	0.80	0.77	---
Plow, moldboard, mules	9-inch	1.0	4.72	9.00	24	1.13	---	2.16
Plow, moldboard, mule	6-inch	1.0	7.56	7.20	11	.83	---	.79
Disk, harrow	6-foot	1.6	1.01	.97	61	.99	.95	---
Plant	2-row	1.0	1.96	1.43	58	1.14	.83	---
Lay off rows & plant, m.	1-row	1.0	7.59	7.77	42	3.19	---	3.26
Weed	2-row	2.9	.63	.60	38	.70	.66	---
Weed, mule	2-row	2.9	.97	.92	62	1.74	---	1.66
Cultivate	2-row	3.9	1.15	1.10	53	2.37	2.27	---
Cultivate, mule	½-row	3.7	2.64	2.52	44	4.30	---	4.10
Cultivate, mules	1-row	3.5	1.98	3.78	13	.90	---	1.72
Hoe by hand	---	1.5	10.60	---	89	14.15	---	---
Dust	6-row	2.1	.34	.26	59	.42	.32	---
Total preharvest						32.66	5.80	13.69
Dig	2-row	1.0	1.26	1.21	63	.79	.76	---
Dig, mules	1-row	1.0	3.74	4.60	21	.79	---	.97
Dig and shake	2-row	1.0	1.50	1.32	16	.24	.21	---
Shake, side-delivery	---	1.0	1.26	1.21	42	.53	.51	---
Cut poles	---	1.0	2.64	---	89	2.35	---	---
Set poles, shake & stack	---	1.0	16.06	---	37	5.94	---	---
Set poles and stack	---	1.0	10.78	---	52	5.61	---	---
Haul stacks, buck rake	---	1.0	1.26	1.21	79	1.00	.96	---
Haul stacks, sled, mules	---	1.0	3.74	4.30	18	.67	---	.77
Pick and haul 1/	---	1.0	2.04	---	100	2.04	---	---
Pick and haul 2/	---	1.0	3.29	1.00	100	3.29	1.00	---
Total harvest						23.25	3.44	1.74
Total						55.91	9.24	15.43

1/ Excludes labor and equipment usually furnished by the contract operator.

2/ Labor and equipment furnished by contract operator.

PEANUTS: RESOURCES USED IN PRODUCTION, AREA IX-D3, 1949

The data presented here are based on a survey made in 1950 of 62 farms producing peanuts in southeastern Virginia and northeastern North Carolina. These farms are located in type-of-farming area IX-D3, a peanut and general farming area in the Northern Coastal Plains portions of Virginia and North Carolina.

The farms surveyed averaged 158 acres. In 1949, 60 acres were in crops, including 21.6 acres in peanuts. The average yield was 1,126 pounds an acre.

Tractors provided an important part of the power used on these farms, although draft animals were used to a varying degree for all operations. The drawbar-horsepower rating of tractors on these farms ranged from 10 to 19; the most common was about 14.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Peanut seed (shelled)	Lb.	60	0.18	10.80	100	10.80
Rye	Bu.	1.5	2.10	3.15	20	.63
Clover	Lb.	17	.30	5.10	13	.66
Fertilizer (0-12-12)	Cwt.	5.15	1.80	9.27	31	2.87
Fertilizer (2-12-12)	Cwt.	4.10	1.95	8.00	50	4.00
Lime	Ton	.45	8.00	3.60	10	.36
Lime (6% potash)	Cwt.	5.1	1.00	5.10	42	2.14
Gypsum	Cwt.	3.75	.80	3.00	92	2.76
Sulphur	Lb.	55.0	.03	1.65	40	.66
DDT and sulphur	Lb.	30.0	.15	4.50	4	.18
Bags	No.	12.5	.32	4.00	100	4.00
Total materials						29.06

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Shelling seed	Cwt.	.6	1.25	.75	70	.52
Treating seed	Cwt.	.6	.35	.21	80	.17
Threshing	Cwt.	11.26	.56	6.31	44	2.78
Total contract work						3.47

1/ Approximately 8 percent of the farmers purchased seed peanuts.

Man labor, power, and machinery used by operation in producing and harvesting peanuts, area IX-D3, southeastern Virginia and northeastern North Carolina, 1949

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Seed cover crop by hand	---	1.0	1.10	---	33	0.36	---	---
Cut stalks	2-row	1.2	.66	0.63	60	.47	0.46	---
Cut stalks, mule	1-row	1.0	1.30	2.48	22	.29	---	0.55
Plow, moldboard	2-14 inch	1.0	1.45	1.39	42	.61	.58	---
Plow, moldboard	3-14 inch	1.0	.98	.93	18	.18	.17	---
Plow, moldboard, mules	1-12 inch	1.0	4.79	9.12	17	.81	---	1.55
Disk, tandem	6-foot	2.4	.67	.64	92	1.48	1.42	---
Disk, mule	3-foot	1.4	1.90	3.63	8	.21	---	.41
Harrow	8-foot	1.1	.46	.44	25	.13	.12	---
Harrow, mules	6-foot	1.2	.86	1.64	23	.24	---	.45
Fertilize	2-row	1.0	1.23	.69	27	.33	.19	---
Fertilize, mule	2-row	1.0	1.51	1.67	26	.39	---	.43
Lime	2-row	1.0	1.36	.65	17	.23	.11	---
Lime, mule	2-row	1.0	1.22	1.51	31	.38	---	.47
List	2-row	1.3	.70	.67	24	.22	.21	---
List, mules	2-row	1.4	1.52	1.83	27	.58	---	.69
Plant	2-row	1.0	1.45	.97	68	.99	.66	---
Plant, mules	1-row	1.0	1.87	2.08	32	.60	---	.67
Weed	2-row	3.0	.64	.62	17	.33	.32	---
Weed	3-row	2.5	.54	.52	20	.27	.26	---
Weed, mule	2-row	3.0	.73	.81	42	.92	---	1.02
Cultivate 1/	2-row	5.9	.89	.77	68	3.57	3.09	---
Cultivate, mules	1-row	6.0	1.56	2.44	32	3.00	---	4.68
Hoe by hand	---	2.1	7.04	---	73	10.79	---	---
Apply gypsum	2-row	1.0	1.21	.75	34	.41	.26	---
Apply gypsum, mule	2-row	1.0	1.63	1.36	38	.62	---	.52
Dust	4-row	2.4	.29	.23	44	.31	.24	---
Total preharvest						28.72	8.09	11.44
Cut poles by hand	---	1.0	2.21	---	26	.57	---	---
Cut poles & haul, mule	---	1.0	1.76	.92	32	.56	---	.29
Cut poles and haul	---	1.0	1.81	.55	23	.42	.13	---
Put up poles by hand	---	1.0	4.83	---	12	.58	---	---
Put up poles, mule	---	1.0	2.65	1.96	13	.34	---	.25
Dig & put up pole row	1-row	1.0	3.71	1.64	30	1.11	.49	---
Dig, shake & stack	1-row	1.0	13.92	2.14	77	10.72	1.65	---
Dig, shake & stack, mule	1-row	1.0	16.36	4.92	23	3.76	---	1.13

Continued

Man labor, power, and machinery used by operation in producing and harvesting peanuts, area IX-D3, southeastern Virginia and northeastern North Carolina, 1949 - Continued

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Haul to thresher	---	1.0	3.24	1.41	41	1.33	.58	
Haul to thresher, mules	---	1.0	4.23	3.90	59	2.50	---	2.30
Thresh	---	1.0	8.98	1.43	56	5.03	.80	---
Thresh, custom	---	1.0	5.98	1.43	44	2.63	.63	---
Threshing labor	---	1.0	2.99	---	44	1.32	---	---
Haul	---	1.0	2.39	1.20	25	.60	.30	---
Haul, mule	---	1.0	2.06	2.49	27	.56	---	.67
Haul, truck	---	1.0	1.33	.70	41	.55	---	---
Total harvest						32.58	4.58	4.64
Total 2/						61.30	12.67	16.08

1/ Includes some side dressing.

2/ In addition, truck use averaged 0.29 hour an acre.

POTATOES: RESOURCES USED IN PRODUCTION, AREA VI-H2, 1951

The data presented here are based on a survey made in 1952 of 25 farms producing Irish potatoes in south central Tennessee. These farms are located in type-of-farming area VI-H2, a livestock and tobacco farming area of the Highland Rim of Tennessee.

The farms surveyed averaged 185 acres, of which 142 were in crops. In 1951, 9 acres were in Irish potatoes and the average yield was 4,850 pounds an acre.

Tractors and motorized equipment provided most of the power used on these farms, although horses were used for some operations. The drawbar-horsepower rating of these tractors ranged from 13 to 27; the most common was about 19.

Materials used and contract work hired, 1951 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Cwt.	7.65	4.35	33.28	100	33.28
Manure	Ton	8	2/ 2.00	16.00	8	1.28
Mixed fertilizer (4-8-8)	Cwt.	16.95	2.20	37.29	58	21.63
Mixed fertilizer(6-12-12)	Cwt.	18.45	2.80	51.66	42	21.70
Spray (arsenic)	Lb.	2.0	.46	.92	25	.23
Spray (DDT)	Lb.	3.0	.51	1.53	54	.83
Spray (Bluestone)	Lb.	20.0	.25	5.00	9	.45
Dust (DDT)	Lb.	10.0	.14	1.40	10	.14
Dust (arsenic)	Lb.	1.0	.46	.46	5	.02
Twine	Lb.	1.7	.29	.49	11	.05
Sacks	No.	48	.13	6.24	28	1.74
Total materials						81.35

1/ No contract work was reported on these farms.
2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting potatoes, area VI-H2, south central Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	90 bu.	1.0	6.88	6.56	8	0.55	0.52	---
Plow, moldboard	2-14 inch	1.0	1.64	1.56	20	.33	.31	---
Plow, disk	2-disk	1.0	1.57	1.50	79	1.24	1.18	---
Disk, tandem	7-foot	1.8	.56	.54	100	1.01	.97	---
Harrow, spiketooth	8-foot	1.1	.33	.30	37	.13	.12	---
Harrow, spiketooth, h.	6-foot	1.7	1.05	2.50	7	.12	---	0.30
Harrow and drag	7-foot	1.0	.41	.38	19	.08	.07	---
Lay-off rows	2-row	1.0	.74	.70	11	.08	.08	---
Lay-off rows, horses	1-row	1.0	1.18	2.29	11	.13	---	.25
Cultipack	8-foot	1.0	.66	.42	4	.03	.02	---
Cut seed, hand	---	1.0	8.30	---	100	8.30	---	---
Plant	2-row	1.0	2.38	.99	81	1.93	.80	---
Plant, horses	1-row	1.0	3.73	3.47	19	.71	---	.66
Harrow, spiketooth	8-foot	1.0	.37	.34	39	.14	.13	---
Harrow, spiketooth, h.	6-foot	1.2	.72	1.39	31	.27	---	.52
Cultivate	2-row	3.3	.82	.79	78	2.11	2.04	---
Cultivate, horses	1-row	3.3	2.51	4.43	22	1.82	---	3.22
Weed	6-row	3.0	.44	.42	9	.12	.11	---
Hoe by hand	---	1.2	6.61	---	16	1.27	---	---
Spray	55-gal.	2.5	1.60	.61	21	.84	.32	---
Spray, horses	50-gal.	1.7	1.60	1.22	19	.52	---	.39
Spray by hand	3-gal.	1.4	5.18	---	27	1.96	---	---
Dust by hand	---	1.5	5.44	---	15	1.22	---	---
Total preharvest						24.91	6.67	5.34
Dig	1-row	1.0	2.99	1.78	100	2.99	1.78	---
Pick up, grade & sack	---	1.0	31.28	---	100	31.28	---	---
Load & haul, truck	---	1.0	5.12	1.48	68	3.48	---	---
Load on buyers' truck	---	1.0	3.81	---	32	1.22	---	---
Total harvest						38.97	1.78	---
Total 1/						63.88	8.45	5.34

1/ In addition, truck use averaged 1.01 hours an acre.

POTATOES: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 25 farms producing Irish potatoes in west central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area in the Arkansas River valleys and uplands.

The farms surveyed averaged 150 acres, of which 61 were in crops. In 1951, 1.8 acres were in Irish potatoes, and the average yield was 4,930 pounds an acre.

Draft animals provided most of the power used in producing potatoes, although 68 percent of the farms surveyed reported tractors. The drawbar-horsepower rating of these tractors ranged from 7 to 27; the most common was about 17.

Materials used and contract work hired, 1951 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Cwt.	6.30	4.80	30.24	100	30.24
Mixed fertilizer (5-10-5)	Cwt.	5.65	2.55	14.41	65	9.37
Mixed fertilizer	Cwt.	6.95	2.60	18.07	35	6.32
Spray (arsenic)	Lb.	7.0	.35	2.45	32	.71
Spray (2-5-40)	Lb.	2.0	.40	.80	2	.02
Dust (arsenic)	Lb.	6.4	.28	1.79	31	.55
Dust (toxaphene)	Lb.	1.6	.16	.26	13	.03
Sacks	No.	45	.14	6.30	44	2.77
Total materials						50.01

1/ No contract work was reported on farms surveyed in this area.

Man labor, power, and machinery used by operation in producing and harvesting Irish potatoes, area VII-H2, west central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Plow, moldboard	2-12 inch	1.0	2.07	1.97	34	0.70	0.67	---
Plow, moldboard, horses	1-12 inch	1.0	5.53	10.76	30	1.66	---	3.23
Plow, disk	2-disk	1.0	1.87	1.78	31	.58	.55	---
Disk, tandem	6-foot	2.1	.70	.67	75	1.10	1.06	---
Disk, single, horses	6-foot	1.2	2.72	5.29	18	.59	---	1.14
Harrow, spiketooth	8-foot	1.3	.40	.37	50	.26	.24	---
Harrow, spiketooth, h.	6-foot	1.4	.91	1.74	34	.43	---	.83
Lay-off rows	1-row	1.0	1.84	1.75	16	.29	.28	---
Lay-off rows	2-row	1.0	.91	.87	2	.02	.02	---
Lay-off rows, horses	1-row	1.0	1.96	3.81	82	1.61	---	3.12
Fertilize, horses	1-row	1.0	2.20	4.28	81	1.78	---	3.47
Fertilize by hand	---	1.0	7.57	---	19	1.44	---	---
Cover fertilizer, h.	1-row	1.0	1.26	1.85	12	.15	---	.22
Cut seed, hand	---	1.0	11.06	---	100	11.06	---	---
Plant by hand	---	1.0	11.66	---	100	11.66	---	---
Cover seed	1-row	1.0	1.84	1.75	16	.29	.28	---
Cover seed, horses	1-row	1.0	2.27	4.41	84	1.91	---	3.70
Harrow, spiketooth	8-foot	1.6	.77	.70	27	.33	.30	---
Harrow, spiketooth, h.	6-foot	1.0	1.09	2.03	26	.28	---	.53
Cultivate	2-row	3.8	.90	.86	23	.79	.75	---
Cultivate, horses	1-row	3.1	2.23	4.34	77	5.32	---	10.36
Hoe	---	1.3	6.60	---	23	1.97	---	---
Spray by hand	3-gal.	1.8	5.12	---	34	3.13	---	---
Dust by hand	---	1.1	2.91	---	29	.93	---	---
Dust	6-row	1.0	.29	.26	15	.04	.04	---
Total preharvest						48.32	4.19	26.60
Dig	1-row	1.0	1.30	1.24	21	.27	.26	---
Dig, horses	1-row	1.0	2.67	5.20	79	2.11	---	4.11
Pick up, grade and sack	---	1.0	32.99	---	100	32.99	---	---
Haul and store, truck	---	1.0	5.28	2.29	35	1.85	---	---
Haul and store, horses	---	1.0	5.20	7.79	16	.83	---	1.25
Haul to market, truck	---	1.0	4.02	1.83	49	1.97	---	---
Total harvest						40.02	.26	5.36
Total 1/						88.34	4.45	31.96

1/ In addition, truck use averaged 1.70 hours an acre.

SOYBEANS: RESOURCES USED IN PRODUCTION, AREA VI-L1, NORTH CAROLINA, 1949

The data presented here are based on a survey made in 1950 of 33 farms producing soybeans in eastern North Carolina. These farms are located in type-of-farming area VI-L1, a truck, tobacco, and livestock area in the Tidewater section.

The farms surveyed averaged 144 acres. In 1949, 86 acres were in crops, including 43 acres in soybeans. The average yield was 16 bushels an acre.

Tractors provided an important part of the power used on these farms, although draft animals were used for some operations. The drawbar-horsepower rating of tractors on these farms ranged from 12 to 25; the most common was about 15.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	0.8	1.95	1.56	67	1.05
Purchased seed	Bu	.8	3.10	2.48	33	.82
Clean seed	Bu.	.8	.10	.08	56	.04
Mixed fertilizer (0-12-12)	Cwt.	2.65	2.00	5.30	66	3.50
Lime	Ton	1.2	2.75	3.30	12	.40
Dust (DDT)	Lb.	26.6	.05	1.33	40	.53
Total materials						6.34

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Dusting	Acre	1.0	.87	.87	14	.12
Combining	Acre	1.0	4.70	4.70	20	.94
Total contract work						1.06

Man labor, power, and machinery used by operation in producing and harvesting soybeans, area VI-L1, eastern North Carolina, 1949

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Cut stalks	2-row	1.0	0.44	0.42	53	0.23	0.22	---
Cut stalks, mules	1-row	1.0	1.15	2.20	15	.17	---	0.33
Plow, moldboard	2-14 inch	1.0	1.20	1.14	17	.20	.19	---
Plow, moldboard	2-18 inch	1.0	.74	.70	8	.06	.06	---
Plow, moldboard	3-14 inch	1.0	.68	.65	12	.08	.08	---
Plow, tiller	6-disk	1.0	.74	.70	19	.14	.13	---
Middlebust and bed	2-row	1.6	.58	.53	38	.35	.32	---
Middlebust & bed, mule	---	2.1	1.68	2.20	8	.28	---	.37
Disk, tandem	5-foot	2.6	.53	.51	92	1.27	1.22	---
Disk, single, mules	---	1.7	1.25	2.40	8	.17	---	.33
Spread lime	12-foot	1.0	1.61	.65	10	.16	.06	---
Spread lime, mules	---	1.0	6.90	5.00	2	.14	---	.10
Haul fertilizer and seed	---	1.0	.17	.10	25	.04	.02	---
Haul fertilizer & seed, mule	---	1.0	.30	.28	28	.08	---	.08
Haul fertilizer & seed, t.	---	1.0	.28	.16	20	.06	---	---
Fertilize	8-foot	1.0	1.50	.73	14	.21	.10	---
Fertilize, mules	---	1.0	1.90	1.70	2	.04	---	.03
Harrow, spiketooth	8-foot	1.2	.40	.38	8	.04	.04	---
Harrow, spiketooth, mule	---	1.9	2.30	2.20	2	.09	---	.08
Plant	2-row	1.0	1.10	.60	63	.69	.38	---
Plant, mules	---	1.0	1.21	1.91	37	.45	---	.71
Cultivate	2-row	3.8	.58	.53	90	1.98	1.81	---
Cultivate, mules	---	3.8	1.83	3.05	10	.70	---	1.16
Dust	---	1.0	.30	.21	26	.08	.05	---
Dust, contract	---	1.0	.30	.21	14	.04	.03	---
Weed by hand	---	1.2	5.90	---	60	4.25	---	---
Run and scoop drains, mule	---	1.0	3.50	1.12	60	2.10	---	.67
Total preharvest						14.10	4.71	3.86
Combine	40-inch	1.0	2.63	1.31	18	.47	.24	---
Combine	7-foot	1.0	1.82	.77	50	.91	.38	---
Combine, contract	7-foot	1.0	1.82	.77	20	.36	.15	---
Combine	12-foot	1.0	1.56	.44	12	.19	.05	---
Haul from combine	---	1.0	.76	.37	35	.27	.13	---
Haul grain, mules	---	1.0	.98	1.02	11	.11	---	.11
Haul grain, truck	---	1.0	.60	.26	41	.25	---	---
Total harvest						2.56	.95	.11
Total 1/						16.66	5.66	3.97

1/ In addition, truck use averaged 0.14 hour an acre.

SOYBEANS: RESOURCES USED IN PRODUCTION, AREA VI-L1, VIRGINIA, 1949

The data presented here are based on a survey made in 1950 of 33 farms producing soybeans in eastern Virginia. These farms are located in type-of-farming area VI-L1, a truck, grain, and livestock area in the Tidewater section.

The farms surveyed averaged 271 acres per farm. In 1949, 130 acres were in crops, including 57 acres in soybeans. The average yield of soybeans was 21 bushels an acre.

Tractors provided most of the power used on these farms. The drawbar-horsepower rating of tractors on these farms ranged from 12 to 25; the most common was about 15.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	1.1	2.00	2.20	72	1.63
Purchased seed	Bu.	1.1	3.20	3.52	28	.99
Clean seed	Bu.	1.1	.10	.11	72	.08
Treat seed	Bu.	1.1	.15	.16	30	.05
Mixed fertilizer(2-12-12)	Cwt.	2.95	1.80	5.31	77	4.09
Lime	Ton	1.2	5.10	6.12	14	.86
Total materials						7.70

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Dusting	Acre	1.0	2.80	2.80	3	.08
Combining	Acre	1.0	6.30	6.30	4	.25
Total contract work						.33

Man labor, power, and machinery used by operation in producing and harvesting soybeans, area VI-L1, eastern Virginia, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms	
			Man	Power		Man	Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Cut stalks	2-row	1.0	0.46	0.44	10	0.05	0.04
Plow, moldboard	1-14 inch	1.0	2.53	2.42	3	.08	.07
Plow, moldboard	2-14 inch	1.0	1.33	1.28	77	1.02	.99
Plow, moldboard	2-16 inch	1.0	1.15	1.10	10	.12	.11
Plow, moldboard	3-12 inch	1.0	.80	.77	10	.08	.08
Disk, tandem	---	2.2	.55	.53	100	1.21	1.17
Haul materials to field	---	1.0	.45	.38	26	.12	.10
Spread lime	9-foot	1.0	.84	.80	14	.12	.11
Fertilize, spreader	7-foot	1.0	.48	.46	7	.03	.03
Harrow, spiketooth	8-foot	1.2	.40	.38	68	.33	.31
Plant	2-row	1.0	1.17	.73	59	.69	.43
Plant, horses	2-row	1.0	1.53	2.93	5	.08	---
Drill	7-foot	1.0	.76	.64	36	.27	.23
Cultivate	2-row	2.6	.67	.62	64	1.11	1.03
Weed by hand	---	1.0	4.80	---	20	.96	---
Dust, plane, contract	---	1.0	---	---	3	---	---
Total preharvest						6.27	4.70
Combine	40-inch	1.0	3.18	1.35	22	.70	.30
Combine	7-foot	1.0	1.59	.79	61	.97	.48
Combine, contract	7-foot	1.0	1.59	.79	4	.06	.03
Combine	12-foot	1.0	.50	.30	13	.06	.04
Haul grain	---	1.0	.38	.29	16	.06	.05
Haul grain, truck	---	1.0	.58	.48	79	.46	---
Total harvest						2.31	.90
Total 1/						8.58	5.60

1/ In addition, horse work averaged 0.15 hour an acre and truck use averaged 0.38 hour an acre.

SOYBEANS FOR BEANS: RESOURCES USED IN PRODUCTION, AREA VII-A8, 1949

The data presented here are based on a 1950 survey of 49 farms producing soybeans. On 8 of the farms the soybeans were harvested for beans. These farms are located in type-of-farming area VII-A8, a specialized cotton farming area in the Upper Coastal Plains of central Alabama.

The farms surveyed averaged 163 acres. In 1949, 14 acres were in soybeans for beans. According to the 1950 census data for the counties included in the survey, the average yield of soybeans in 1949 was 12 bushels an acre.

Tractors provided most of the power used on farms raising soybeans for beans, although draft animals were used for some operations. The drawbar-horsepower rating of these tractors ranged from 13 to 26; the most common was about 19.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Bu.	1.0	5.50	5.50	100	5.50
Mixed fertilizer	Cwt.	2.00	2.05	4.10	17	.70
Phosphoric acid	Cwt.	2.90	1.05	3.04	9	.27
Lime	Ton	.2	13.00	2.60	39	1.01
Total materials						7.48

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Combining	Acre	1.0	5.85	5.85	43	2.52
Total contract work						2.52

Man labor, power, and machinery used by operation in producing and harvesting soybeans for beans, area VII-A8, central Alabama, 1949

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Plow, disk	2-disk	1.1	1.52	1.45	65	1.09	1.04	---
Plow, moldboard	2-14 inch	1.0	2.07	1.97	6	.12	.12	---
Plow, moldboard, mule	1-12 inch	1.0	4.40	4.32	23	1.01	---	0.99
Disk, tandem	5-foot	1.6	.83	.79	22	.29	.28	---
Disk, tandem, mules	5-foot	1.0	2.49	3.15	3	.07	---	.09
Disk and harrow	5-foot	1.4	.90	.86	45	.57	.54	---
Disk and harrow, mule	3-foot	1.4	1.86	1.81	11	.29	---	.28
Fertilize, spreader	1-ton	1.0	.96	.70	5	.05	.04	---
Fertilize, mule	1-row	1.0	1.66	1.58	7	.12	---	.11
Fertilize by hand	---	1.0	2.73	---	9	.25	---	---
List, mule	1-row	1.0	1.80	1.75	14	.25	---	.24
Plant	2-row	1.0	.79	.63	45	.36	.28	---
Plant, mule	1-row	1.0	2.20	1.62	22	.48	---	.36
Plant by hand	---	1.0	1.12	---	33	.37	---	---
Cultivate	2-row	2.6	.69	.66	43	.77	.74	---
Cultivate, mule	1-row	1.2	1.70	1.63	24	.49	---	.47
Total preharvest						6.58	3.04	2.54
Combine	10-foot	1.0	2.34	1.08	57	1.33	.62	---
Combine, contract	6-foot	1.0	2.81	1.30	43	1.21	.56	---
Total harvest						2.54	1.18	---
Total						9.12	4.22	2.54

SOYBEANS: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 27 farms producing soybeans in west central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area in the Arkansas River valleys and uplands.

The farms surveyed averaged 1,000 acres, of which 656 were in crops. In 1951, 144 acres were in soybeans, and the average yield was 26 bushels an acre.

Tractors provided most of the power used on the farms in this area; they were used for operations listed below unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 10 to 34; the most common was about 24.

Materials used and contract work hired, 1951 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 2/	Bu.	1.2	3.60	4.32	100	4.32
Mixed fertilizer	Cwt.	1.10	2.55	2.80	5	.14
Superphosphate(0-20-0)	Cwt.	2.00	1.80	3.60	1	.04
Potash fertilizer	Cwt.	2.00	2.50	5.00	3	.15
Total materials						4.65

1/ No contract work was reported in this area.

2/ Approximately 80 percent of the farmers in this area purchased seed.

Man labor, power, and machinery used by operation in producing and harvesting soybeans, area VII-H2, west central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms	
			Man	Power		Man	Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Disk, tandem	7-foot	2.0	0.55	0.52	24	0.26	0.25
Plow, moldboard	2-14 inch	1.0	1.28	1.22	60	.77	.73
Plow, disk	3-disk	1.0	1.30	1.24	16	.21	.20
Disk, tandem	7-foot	2.1	.52	.49	96	1.05	.99
Harrow, spiketooth	12-foot	1.3	.29	.26	55	.21	.19
List	2-row	1.2	.51	.48	72	.44	.42
Plant	2-row	1.0	.61	.56	17	.10	.10
Plant	4-row	1.0	.63	.25	83	.52	.21
Cultivate	2-row	3.2	.48	.46	16	.25	.24
Cultivate	4-row	4.3	.30	.28	84	1.08	1.01
Weed by hand	---	1.0	3.15	---	8	.25	---
Hoe by hand	---	1.4	5.83	---	64	8.16	---
Total preharvest						13.30	4.34
Combine, self-propelled	12-foot	1.0	.70	.59	20	.14	---
Combine	5-foot	1.0	1.43	.80	80	1.14	.64
Haul from combine, truck	---	1.0	1.32	.66	28	.37	---
Haul to market, truck	---	1.0	.99	.40	72	.71	---
Total harvest						2.36	.64
Total 1/						15.66	4.98

1/ In addition, truck use averaged 0.47 hour an acre and self-propelled combines 0.12 hour an acre.

SOYBEANS: RESOURCES USED IN PRODUCTION, AREA VIII-C1, 1951

The data presented here are based on a survey made in 1952 of 19 farms producing soybeans in type-of-farming area VIII-C1. This area is located in northwestern Tennessee and southwestern Kentucky, a tobacco and general farming area of the Pennyroyal-Purchase.

The farms surveyed averaged 138 acres, of which 80 were in crops. In 1951, 20 acres were in soybeans, and the average yield was 15 bushels an acre.

Tractors provided most of the power used on farms in this area; they were used for operations listed below unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 13 to 27; the most common was about 18.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Bu.	0.6	3.10	1.86	100	1.86
Mixed fertilizer(6-12-6)	Cwt.	4.35	2.20	9.57	11	1.05
Mixed fertilizer(6-12-12)	Cwt.	2.95	2.60	7.67	14	1.07
Lime	Ton	1.2	2.55	3.06	9	.28
Sacks	No.	7	.14	.98	16	.16
Total materials						4.42

CONTRACT WORK HIRED

Combining	Bu.	1/ 5	2.50	12.50	20	2.50
Combining	Bu.	15	.50	7.50	21	1.58
Total contract work						4.08

1/ These contract operators received one-third of the grain as payment for combining. The September market price for soybeans in Tennessee was $2.50 a bushel.

Man labor, power, and machinery used by operation in producing and
harvesting soybeans, area VIII-C1, northwestern
Tennessee 1951

Operation	Size of equipment	Times over	Time per acre: once over Man	Time per acre: once over Power	Acreage covered	Average time per acre - all farms Man	Average time per acre - all farms Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Disk, tandem	6-foot	1.0	0.58	0.56	19	0.11	0.11
Plow, moldboard	2-14 inch	1.0	1.28	1.22	82	1.05	1.00
Plow, disk	2-disk	1.0	1.58	1.50	14	.22	.21
Disk, tandem	7-foot	1.9	.48	.46	94	.86	.82
Disk and harrow	6-foot	1.5	.48	.44	29	.21	.19
Harrow, spiketooth	8-foot	1.2	.41	.38	67	.33	.31
Harrow and cultipack	9-foot	2.0	.23	.21	10	.05	.04
Plant	2-row	1.0	.65	.51	75	.49	.38
Plant, horses	2-row	1.0	.91	1.48	25	.23	---
Cultivate	2-row	3.3	.53	.50	100	1.75	1.65
Total preharvest						5.30	4.71
Combine	6-foot	1.0	1.84	.92	24	.44	.22
Combine, contract	6-foot	1.0	1.84	.92	25	.46	.23
Combine and sack	6-foot	1.0	2.36	1.18	35	.83	.41
Combine & sack, contract	5-foot	1.0	3.24	1.62	16	.52	.26
Haul from combine	---	1.0	1.01	.48	18	.18	.09
Haul to market, truck	---	1.0	.68	.41	67	.46	---
Total harvest						2.89	1.21
Total 1/						8.19	5.92

1/ In addition, horse work averaged 0.37 hour an acre and truck use 0.27 hour an acre.

SOYBEANS: RESOURCES USED IN PRODUCTION, AREA IX-D3, 1949

The data presented here are based on a survey made in 1950 of 60 farms producing soybeans in southeastern Virginia and northeastern North Carolina. These farms are located in type-of-farming area IX-D3, a peanut and general farming area in the Northern Coastal Plains portions of Virginia and North Carolina.

The farms surveyed averaged 200 acres. In 1949, 103 acres were in crops, including 28 acres in soybeans. The average yield was 16.3 bushels an acre.

Tractors provided an important part of the power used on these farms, although draft animals were used to a varying degree for almost all operations. The drawbar-horsepower rating of tractors on these farms ranged from 10 to 19; the most common was about 14.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	0.8	2.95	2.36	100	2.36
Fertilizer (0-12-12)	Cwt.	3.15	1.80	5.67	57	3.23
Lime	Ton	1.0	8.00	8.00	9	.72
Total materials						6.31

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Combining	Acre	1.0	5.75	5.75	29	1.67
Total contract work						1.67

1/ Approximately 39 percent of the farmers in this area purchased soybean seed.

Man labor, power, and machinery used by operation in producing and harvesting soybeans, area IX-D3, southeastern Virginia and northeastern North Carolina, 1949

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Cut stalks	2-row	1.2	0.52	0.50	53	0.33	0.32	---
Cut stalks, mules	1-row	1.0	1.17	2.23	6	.07	---	0.13
Plow, moldboard	2-14 inch	1.0	1.42	1.35	57	.81	.77	---
Plow, moldboard, mules	1-12 inch	1.0	3.56	6.78	3	.11	---	.20
Disk, tandem	7-foot	2.1	.59	.56	50	.62	.59	---
Disk, tandem	5-foot	2.4	.74	.70	24	.43	.40	---
Disk, mules	3-foot	1.7	1.21	2.31	4	.08	---	.16
Middlebust	2-row	1.0	.72	.69	50	.36	.34	---
Middlebust, mules	1-row	1.2	1.62	2.78	3	.06	---	.10
Disk and drag	5-foot	1.8	.89	.85	9	.14	.14	---
Disk and drag	7-foot	1.2	.61	.58	7	.05	.05	---
Spread, lime	2-row	1.0	1.65	.79	7	.12	.06	---
Fertilize	2-row	1.0	1.39	.78	11	.15	.09	---
Fertilize, mules	2-row	1.0	1.04	1.24	4	.04	---	.05
Harrow	8-foot	1.0	.34	.33	14	.05	.05	---
Harrow, mules	6-foot	1.0	.69	1.32	3	.02	---	.04
Lay off rows	2-row	1.0	.82	.78	10	.08	.08	---
Lay off rows, mules	1-row	1.0	1.11	1.27	3	.03	---	.04
Plant	2-row	1.0	1.21	.77	88	1.06	.68	---
Plant, mules	2-row	1.0	1.08	1.29	7	.08	---	.09
Plant, mule	1-row	1.0	1.89	1.93	5	.09	---	.10
Weed	2-row	1.6	.46	.44	19	.14	.13	---
Weed, mule	2-row	1.0	.76	.80	26	.20	---	.21
Cultivate	2-row	3.5	.77	.74	93	2.51	2.41	---
Cultivate, mules	1-row	2.7	1.47	1.69	7	.28	---	.32
Hoe by hand	---	1.2	4.03	---	69	3.34	---	---
Total harvest						11.25	6.11	1.44
Combine	---	1.0	1.82	.84	71	1.29	.60	---
Combine, contract	---	1.0	1.82	.84	29	.53	.24	---
Haul	---	1.0	.77	.28	55	.42	.15	---
Haul, mule	---	1.0	.40	.43	7	.03	---	.03
Haul, truck	---	1.0	.56	.17	22	.12	---	---
Total harvest						2.39	.99	.03
Total 1/						13.64	7.10	1.47

1/ In addition, truck use averaged 0.04 hour an acre.

SOYBEANS FOR HAY: RESOURCES USED IN PRODUCTION, AREA VII-A8, 1949

The data presented here are based on a 1950 survey of 49 farms producing soybeans. On 41 of these farms the soybeans were harvested for hay. These farms are located in type-of-farming area VII-A8, a specialized cotton farming area in the Upper Coastal Plains of central Alabama.

The farms surveyed averaged 163 acres. In 1949, 4 acres were in soybeans for hay. According to the 1950 census data for the counties included in the survey, the average yield of soybean hay in 1949 was 1.0 ton an acre.

Draft animals provided an important part of the power on farms raising soybeans for hay. Tractors were reported on 37 percent of the farms in this area. The drawbar-horsepower rating of these tractors ranged from 13 to 26; the most common was about 19.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Bu.	1.0	5.50	5.50	100	5.50
Mixed fertilizer	Cwt.	2.00	2.05	4.10	17	.70
Phosphoric acid	Cwt.	2.90	1.05	3.04	9	.27
Lime	Ton	.2	13.00	2.60	39	1.01
Total materials						7.48

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Baling	No.	1/ 33	0.15	4.95	59	2.92
Total contract work						2.92

1/ Approximately 60-pound bales; yield based on county data from the 1950 census.

Man labor, power, and machinery used by operation in producing and harvesting soybeans for hay, area VII-A8, central Alabama, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Plow, disk	2-disk	1.1	1.52	1.45	65	1.09	1.04	---
Plow, moldboard	2-14 inch	1.0	2.07	1.97	6	.12	.12	---
Plow, moldboard, mule	1-12 inch	1.0	4.40	4.32	23	1.01	---	0.99
Disk, tandem	5-foot	1.6	.83	.79	22	.29	.28	---
Disk, tandem, mules	5-foot	1.0	2.49	3.15	3	.07	---	.09
Disk and harrow	5-foot	1.4	.90	.86	45	.57	.54	---
Disk and harrow, mule	3-foot	1.4	1.86	1.81	11	.29	---	.28
Fertilize, spreader	1-ton	1.0	.96	.70	5	.05	.04	---
Fertilize, mule	1-row	1.0	1.66	1.58	7	.12	---	.11
Fertilize by hand	---	1.0	2.73	---	9	.25	---	---
List, mule	1-row	1.0	1.80	1.75	14	.25	---	.24
Plant	2-row	1.0	.79	.63	45	.36	.28	---
Plant, mule	1-row	1.0	2.20	1.62	22	.48	---	.36
Plant by hand	---	1.0	1.12	---	33	.37	---	---
Cultivate	2-row	2.6	.69	.66	43	.77	.74	---
Cultivate, mule	1-row	1.2	1.70	1.63	24	.49	---	.47
Total preharvest						6.58	3.04	2.54
Mow	7-foot	1.0	.86	.82	31	.27	.25	---
Mow, mules	5-foot	1.0	1.28	2.44	36	.46	---	.88
Mow, mule	5-foot	1.0	1.25	1.20	33	.41	---	.40
Rake, mules	---	1.0	.87	1.69	68	.59	---	1.15
Rake, mule	---	1.0	.91	.89	32	.29	---	.28
Shock by hand	---	1.0	3.32	---	39	1.29	---	---
Bale, contract	---	1.0	4.08	1.10	59	2.41	.65	---
Haul bales, mules	---	1.0	2.75	1.78	59	1.62	---	1.05
Haul loose hay, mules	---	1.0	6.34	2.92	41	2.60	---	1.20
Total harvest						9.94	.90	4.96
Total						16.52	3.94	7.50

STRAWBERRIES: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 25 farms producing strawberries in central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area of the Arkansas River valleys and uplands.

The farms surveyed averaged 203 acres, of which 101 were in crops. In 1951, 6.7 acres were in strawberries, and the average yield was 55.7 crates an acre. The average life of plant beds was 4 years.

Draft animals provided much of the power used in producing strawberries, although 72 percent of the farms surveyed reported tractors. The drawbar-horsepower rating of these tractors ranged from 9 to 31; the most common was about 15.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Establish beds:						
Plants	1,000	5.65	4.80	27.12	100	27.12
Total for establishment						27.12
Annual charge	---	---	---	---	---	9.04
Fertilizer (5-10-5)	Cwt.	8.45	2.65	22.39	100	22.39
Dust (3-5-40)	Lb.	10.0	.15	1.50	7	.10
Rice straw	Ton	1.1	14.25	15.68	100	15.68
Crates and cups	No.	55.7	.67	37.32	91	33.96
Total materials						81.17

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Picking	Qt.	1,337	.06	80.22	100	80.22
Capping and crating	Qt.	1,337	.11	147.07	43	63.24
Total contract work						143.46

Man labor, power, and machinery used by operation in producing and harvesting strawberries, area VII-H2, central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Establish beds:								
Disk, tandem	6-foot	1.8	0.66	0.63	24	0.29	0.27	---
Disk, single, horses	5-foot	3.0	1.84	3.57	3	.17	---	0.32
Plow, moldboard	1-12 inch	1.0	4.00	3.82	9	.36	.34	---
Plow, moldboard	2-14 inch	1.0	1.32	1.26	24	.32	.30	---
Plow, moldboard, h.	1-12 inch	1.0	5.50	10.70	21	1.16	---	2.25
Plow, disk	2-disk	1.0	1.46	1.40	42	.61	.59	---
Disk, tandem	6-foot	2.1	.64	.61	75	1.00	.96	---
Disk and harrow	8-foot	1.0	.82	.75	6	.05	.04	---
Disk, single, horses	5-foot	2.0	2.77	5.39	9	.50	---	.97
Harrow, spiketooth	8-foot	1.9	.49	.45	40	.37	.34	---
Harrow, spiketooth, h.	6-foot	1.9	.85	1.63	31	.50	---	.96
Lay off rows	1-row	1.0	1.10	1.05	15	.16	.16	---
Lay off rows, horses	1-row	1.0	2.13	4.15	47	1.00	---	1.95
Fertilize, distributor	1-row	1.0	1.15	1.05	9	.10	.09	---
Fertilize, distributor	2-row	1.0	.58	.52	11	.06	.06	---
Fertilize by hand	---	1.0	5.05	---	13	.66	---	---
Fertilize, horses	1-row	1.0	2.27	2.80	47	1.07	---	1.32
Bed	1-row	1.0	1.10	1.05	5	.06	.05	---
Bed	2-row	1.3	.89	.85	13	.15	.14	---
Bed, horses	1-row	1.2	2.22	3.60	68	1.81	---	2.94
Drag, wooden, horses	6-foot	1.0	1.10	1.05	17	.19	---	.18
Transplant	---	1.0	19.71	---	100	19.71	---	---
Total for establishment						30.30	3.34	10.89
Annual charge 1/	---	---	---	---	---	10.10	1.11	3.63
Mow	5-foot	1.5	1.53	1.40	8	.18	.17	---
Fertilize, hand: spring	---	1.0	6.02	---	100	6.02	---	---
Fertilize, hand: fall	---	1.0	5.74	---	95	5.45	---	---
Fertilize, horses: fall	---	1.0	1.92	2.38	5	.10	---	.12
Cultivate	1-row	8.0	1.94	1.85	15	2.33	2.22	---
Cultivate	2-row	6.0	1.26	1.21	8	.60	.58	---
Cultivate, horses	1-row	9.1	2.35	4.58	52	11.12	---	21.67
Hoe by hand	---	5.2	24.99	---	100	129.95	---	---
Dust by hand	---	1.0	3.12	---	9	.28	---	---
Mulch	---	1.0	6.31	3.35	100	6.31	3.35	---
Total preharvest						172.44	7.43	25.42

Continued

Man labor, power, and machinery used by operation in producing and harvesting strawberries, area VII-H2, central Arkansas, 1951 - Continued

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Fresh market								
Pick, contract	---	9.0	78.11	---	57	400.70	---	---
Grade and crate	---	9.0	17.24	---	57	88.44	---	---
Haul, truck	---	9.0	1.70	1.17	57	8.72	---	---
Fresh market & process								
Fresh market								
Pick, contract	---	6.5	91.26	---	43	255.07	---	---
Grade and crate	---	6.5	37.20	---	43	103.97	---	---
Haul, truck	---	6.5	1.70	1.17	43	4.75	---	---
Process								
Cap & crate, c.	---	6.1	119.14	---	43	312.50	---	---
Haul, truck	---	6.1	1.84	.98	43	4.82	---	---
Total harvest						1,178.97	---	---
Total 2/						1,351.41	7.43	25.42

1/ The average life is about 3 years.

2/ In addition, truck use averaged 11.84 hours an acre.

STRAWBERRIES: RESOURCES USED IN PRODUCTION, AREA VIII-C1, 1951

The data presented here are based on a survey made in 1952 of 25 farms producing strawberries in northwestern Tennessee. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area of the Pennyroyal Purchase.

The farms surveyed averaged 133 acres, of which 99 were in crops. In 1951, 5 acres were in strawberries, and the average yield was 76.8 crates an acre. The average life of the plant beds was 4 years.

Draft animals provided much of the power used in producing strawberries, although nearly all of the farms surveyed reported tractors. The drawbar-horsepower rating of these tractors ranged from 7 to 31; the most common was about 17.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Establish beds:						
Plants	1,000	4.10	5.50	22.55	100	22.55
Total for establishment						22.55
Annual charge	---	---	---	---	---	5.64
Fertilizer (6-12-12)	Cwt.	5.60	2.80	15.68	50	7.84
Fertilizer (2-12-6)	Cwt.	5.15	2.05	10.56	25	2.64
Mixed fertilizer	Cwt.	8.95	2.25	20.14	25	5.04
Spray	Lb.	17.5	.37	6.48	8	.52
Rice straw	Ton	1.2	19.25	23.10	100	23.10
Crates and cups	No.	76.8	.83	63.74	62	39.52
Total materials						84.30

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Picking	Qt.	1,843	.06	110.58	87	96.20
Capping and crating	Qt.	1,843	.11	202.73	26	52.71
Total contract work						148.91

Man labor, power, and machinery used by operation in producing and harvesting strawberries, area VIII-C1, northwestern Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Establish beds:								
Disk, tandem	6-foot	1.3	0.54	0.51	30	0.21	0.20	---
Plow, moldboard	2-14 inch	1.0	1.48	1.42	89	1.32	1.26	---
Plow, moldboard, horses	1-12 inch	1.0	5.50	10.70	3	.16	---	0.32
Plow, disk	2-disk	1.0	1.74	1.66	8	.14	.13	---
Disk, tandem	6-foot	2.1	.51	.48	93	1.00	.94	---
Disk, single, horses	3-foot	2.0	1.84	3.57	3	.11	---	.21
Harrow, spiketooth	8-foot	1.5	.47	.43	28	.20	.18	---
Harrow, spiketooth, h.	6-foot	3.9	1.68	2.57	52	3.41	---	5.21
Lay off rows	2-row	1.5	.99	.94	29	.43	.41	---
Lay off rows, horses	2-row	2.0	1.51	2.93	54	1.63	---	3.16
Fertilize, distributor	2-row	1.0	.86	.79	21	.18	.17	---
Fertilize, distributor, h.	2-row	1.0	.95	1.78	35	.33	---	.62
Fertilize, distributor, h.	1-row	1.0	2.50	3.04	23	.58	---	.70
Fertilize by hand	---	1.0	3.28	---	21	.69	---	---
Bed	2-row	1.0	.74	.70	5	.04	.04	---
Bed, horses	1-row	1.0	2.20	3.85	12	.26	---	.46
Drag, plank	9-foot	1.5	.32	.30	30	.14	.14	---
Drag, plank, horses	7-foot	1.5	.69	.66	6	.06	---	.06
Transplant by hand	---	1.0	18.17	---	100	18.17	---	---
Hoe by hand	---	4.9	38.35	---	100	187.92	---	---
Total for establishment						216.98	3.47	10.74
Annual charge 1/	---	---	---	---	---	54.24	.87	2.68
Mow	7-foot	1.0	.86	.79	100	.86	.79	---
Fertilize: spring	2-row	1.0	1.10	.78	45	.50	.35	---
Fertilize by hand: spring	---	1.0	3.34	---	55	1.84	---	---
Fertilize: fall	2-row	1.0	1.54	1.08	21	.32	.23	---
Fertilize, horses: fall	2-row	1.0	1.38	2.57	8	.11	---	.21
Fertilize by hand: fall	---	1.0	3.98	---	71	2.83	---	---
Cultivate, horses	1-row	6.0	2.09	3.15	92	11.54	---	17.39
Cultivate	2-row	4.0	1.00	.96	8	.32	.31	---
Spray by hand	---	1.0	3.96	---	8	.32	---	---
Mulch, straw	---	1.0	8.77	3.49	100	8.77	3.49	---
Total preharvest						81.65	6.04	20.28

Continued

Man labor, power, and machinery used by operation in producing and harvesting strawberries, area VIII-Cl, northwestern Tennessee, 1951 - Continued

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Fresh market only:								
Pick, contract	---	8.9	78.51	---	74	517.07	---	---
Grade and crate	---	8.9	10.54	---	74	69.42	---	---
Haul, truck	---	8.9	2.09	1.11	74	13.76	---	---
Fresh market & process:								
Fresh market								
Pick, contract	---	7.8	62.85	---	13	63.73	---	---
Grade and crate	---	7.8	13.75	---	13	13.94	---	---
Haul, truck	---	7.8	2.09	1.11	13	2.12	---	---
Process								
Cap & crate, c.	---	7.2	91.29	---	13	85.45	---	---
Haul, truck	---	7.2	.84	.57	13	.79	---	---
Process only:								
Cap & crate, c.	---	7.3	41.36	---	13	39.25	---	---
Haul, truck	---	7.3	.84	.57	13	.80	---	---
Total harvest						806.33	---	---
Total 2/						887.98	5.83	20.28

1/ The average life of the bed is about 4 years.

2/ In addition, truck use averaged 9.51 hours an acre.

STRAWBERRIES: RESOURCES USED IN PRODUCTION, AREA IX-D2, 1949

The data presented here are based on a survey made in 1950 of 35 farms that produced strawberries in 1949 in south central Alabama. These farms are located in the western part of type-of-farming area IX-D2, a peanut and general farming area in the Coastal Plains of southern Alabama and Georgia.

The farms surveyed averaged 158 acres, of which 56 were in crops. In 1949, the acreage of strawberries averaged 3.8 acres per farm and, the yield was fifty-five 24-quart crates.

Tractors provided the power used on 29 percent of the farms that raised strawberries. The rated drawbar-horsepower of these tractors ranged from 13 to 19; the average size was about 14.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Establishment of beds:						
Plants 2/	100	0.60	28.80	28.80	100	28.80
Total materials						28.80
Annual charge	---	---	---	---	---	9.60
Fertilizer(6-8-4 or 4-10-7)	Cwt.	23.10	2.00	46.20	100	46.20
Crates	No.	35	.77	26.95	100	26.95
Cups	100	4.10	.15	.62	106	.62
Total materials						83.37

1/ No contract work was reported on farms surveyed.
2/ Approximately 38 percent of the farmers purchased plants.

Man labor, power, and machinery used by operation in producing and harvesting strawberries, area IX-D2, south central Alabama, 1949

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Establish new beds:								
Plow, disk tiller	---	1.0	1.57	1.57	3	0.05	0.05	---
Plow, mule	1-horse	1.0	9.20	9.20	10	.92	---	0.92
Disk, tandem	6-foot	4.2	1.16	1.16	87	4.23	4.24	---
Lay off rows, fertilize and bed, mule	1-row	1.0	14.27	13.85	15	2.14	---	2.08
Transplant	---	1.0	33.33	3.33	32	10.67	1.07	---
Transplant by hand	---	1.0	31.19	---	68	21.21	---	---
Total						39.22	5.36	3.00
Annual charge 1/	---	---	---	---	---	13.07	1.79	1.00
Fertilize	8-foot	3.0	3.52	1.00	47	4.96	1.41	---
Fertilize, mule	1-row	1.0	5.54	3.51	13	.72	---	.46
Fertilize by hand	---	1.7	14.61	---	58	14.41	---	---
Cultivate, 1-man	2-row	15.7	1.23	1.23	36	6.95	6.95	---
Cultivate, 3-man	2-row	36.0	3.00	1.00	19	20.52	6.84	---
Cultivate, mule	½-row	11.3	3.80	3.80	43	18.46	---	18.46
Cultivate, mule	1-row	5.7	2.44	2.44	16	2.23	----	2.23
Hoe & weed by hand	---	16.0	44.55	---	100	712.80	---	---
Gather, haul & spread pine straw, truck	---	1.0	76.00	3.18	75	57.00	---	---
Gather, haul & spread pine straw, mule	---	1.0	76.00	11.47	25	19.00	---	2.87
Total preharvest						870.12	16.99	25.02
Pick by hand	---	29.0	5.15	---	100	149.35	---	---
Grade & pack by hand	---	29.0	7.01	---	85	172.80	---	---
Haul picker	---	29.0	2.34	2.34	22	14.93	---	---
Field supervision	---	29.0	3.83	---	27	29.99	---	---
Haul to market	---	29.0	.57	.28	100	16.53	---	---
Total harvest						383.60	---	---
Total 2/						1,253.72	16.99	25.02

1/ The average life of the bed was 3 years.

2/ In addition, truck use averaged 25.43 hours an acre.

SWEETPOTATOES: RESOURCES USED IN PRODUCTION, AREA VII-H2, 1951

The data presented here are based on a survey made in 1952 of 23 farms producing sweetpotatoes in west central Arkansas. These farms are located in type-of-farming area VII-H2, a cotton and general farming area in the Arkansas River valleys and uplands.

The farms surveyed averaged 273 acres, of which 203 acres were in crops. In 1951, 2.4 acres were in sweetpotatoes, and the average yield was 113 bushels an acre.

Draft animals were used for some operations on nearly all the farms. However, tractors were reported on 61 percent of the farms surveyed. The drawbar-horsepower rating of the tractors ranged from 7 to 19; the most common was about 13.

Materials used and contract work hired, 1951 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Plants	1,000	9.0	3.30	29.70	100	29.70
Mixed fertilizer (5-10-5)	Cwt.	7.50	2.30	17.25	72	12.42
Mixed fertilizer (3-9-18)	Cwt.	4.90	2.70	13.23	28	3.70
Crates	No.	76	.32	24.32	33	8.03
Baskets	No.	113	.11	12.43	35	4.35
Total materials						58.20

1/ No contract work was reported on farms surveyed in this area.

Man labor, power, and machinery used by operation in producing and harvesting sweetpotatoes, area VII-H2, west central Arkansas, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Plow, moldboard	1-14 inch	1.0	4.12	3.94	11	0.45	0.43	---
Plow, moldboard	2-14 inch	1.0	1.72	1.64	16	.28	.26	---
Plow, moldboard, horses	1-12 inch	1.0	5.50	10.70	25	1.38	---	2.68
Plow, disk	2-disk	1.0	1.06	1.01	31	.33	.31	---
Disk, tandem	6-foot	2.2	.76	.72	50	.84	.79	---
Disk, single, horses	6-foot	2.0	2.20	5.78	5	.22	---	.58
Disk and harrow	7-foot	1.7	.63	.58	19	.20	.19	---
Disk and drag	6-foot	3.5	.81	.78	16	.45	.44	---
Harrow, spiketooth	8-foot	1.3	.58	.52	39	.29	.27	---
Harrow, spiketooth, h.	8-foot	1.9	.92	1.76	18	.32	---	.60
Lay-off rows	2-row	1.0	.74	.70	26	.19	.18	---
Lay-off rows	1-row	1.0	1.38	1.31	13	.18	.17	---
Lay-off rows, horses	2-row	1.0	1.10	2.14	11	.12	---	.24
Lay-off rows, horses	1-row	1.0	1.69	3.30	14	.24	---	.46
Bed	2-row	1.0	1.10	1.05	33	.36	.35	---
Bed	1-row	1.0	1.57	1.50	11	.17	.16	---
Bed, horses	1-row	1.0	1.98	3.85	35	.69	---	1.35
Fertilize, spreader	12-foot	1.0	.46	.42	35	.16	.15	---
Fertilize, distributor	1-row	1.0	1.37	1.25	25	.34	.31	---
Fertilize, distributor, h	1-row	1.0	2.16	2.42	37	.80	---	.90
Bed, horses	1-row	1.0	1.44	2.80	19	.27	---	.53
Harrow, spiketooth	7-foot	1.0	.51	.46	8	.04	.04	---
Harrow, spiketooth, h.	7-foot	1.0	.93	1.78	13	.12	---	.23
Drag, plank	8-foot	1.0	1.07	1.02	14	.15	.14	---
Drag, plank , horses	8-foot	1.0	.95	1.81	22	.21	---	.40
Transplant by hand	---	1.0	19.07	---	61	11.63	---	---
Transplant	1-row	1.0	9.30	3.55	39	3.63	1.38	---
Cultivate	1-row	5.4	1.48	1.42	30	2.40	2.30	---
Cultivate	2-row	5.5	1.96	1.87	19	2.05	1.95	---
Cultivate, horses	1-row	3.9	2.49	4.84	51	4.95	---	9.63
Hoe by hand	---	1.9	21.72	---	96	39.62	---	---
Total preharvest						73.08	9.82	17.60
Dig	1-row	1.0	2.79	2.67	54	1.51	1.44	---
Dig, horses	1-row	1.0	3.66	7.13	46	1.68	---	3.28
Pile, grade & crate	----	1.0	53.27	---	100	53.27	---	---
Load and haul	---	1.0	7.18	2.74	19	1.36	.52	---
Load and haul, truck	---	1.0	4.97	2.50	43	2.14	---	---
Load and haul, horses	---	1.0	3.18	4.75	14	.45	---	.66
Haul to market, truck	---	1.0	3.64	1.93	21	.76	---	---
Total harvest						61.17	1.96	3.94
Total 1/						134.25	11.78	21.54

1/ In addition, truck use averaged 1.49 hours an acre.

SWEETPOTATOES: RESOURCES USED IN PRODUCTION, AREA VIII-C1, 1951

The data presented here are based on a survey made in 1952 of 20 farms producing sweetpotatoes in northwestern Tennessee. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area of the Pennyroyal-Purchase.

The farms surveyed averaged 125 acres, of which 76 were in crops. In 1951, 3.7 acres were in sweetpotatoes, and the average yield was 102 bushels an acre.

Tractors provided some of the power used on almost all of these farms, although draft animals were used almost entirely for operations such as listing and cultivating. The drawbar-horsepower rating of the tractors on these farms ranged from 12 to 16; the most common was about 14.

Materials used and contract work hired, 1951 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Plants	1,000	9.6	2.50	24.00	100	24.00
Mixed fertilizer (6-12-12)	Cwt.	4.85	2.85	13.82	82	11.33
Mixed fertilizer	Cwt.	3.75	2.30	8.62	15	1.29
Nitrate fertilizer (20-0-0)	Cwt.	1.00	4.00	4.00	4	.16
Crates	No.	91	.40	36.40	24	8.74
Baskets (replacements)	No.	40	.29	11.60	30	3.48
Total materials						49.00

1/ No contract work was reported on the farms surveyed in this area.

Man labor, power, and machinery used by operation in producing and harvesting sweetpotatoes, area VIII-C1, northwestern Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Disk, tandem	6-foot	1.3	0.60	0.58	57	0.44	0.43	---
Disk, single, horses	6-foot	1.0	1.10	2.14	7	.08	---	0.15
Plow, moldboard	2-14 inch	1.0	1.66	1.59	86	1.43	1.37	---
Plow, moldboard, horses	1-14 inch	1.0	5.50	10.70	14	.77	---	1.50
Disk, tandem	6-foot	2.1	.55	.52	89	1.03	.97	---
Disk, single, horses	6-foot	2.0	1.10	2.14	7	.15	---	.30
Harrow, spiketooth	8-foot	1.9	.43	.39	74	.61	.55	---
Harrow, spiketooth, h.	6-foot	1.0	1.05	1.95	13	.14	---	.25
Cultipack	8-foot	1.3	.42	.40	21	.12	.11	---
Lay-off rows	2-row	1.0	.89	.85	21	.19	.18	---
Lay-off rows, horses	1-row	1.0	1.52	2.21	19	.29	---	.42
Fertilize by hand	---	1.0	1.84	---	39	.72	---	---
Fertilize, drill	7-foot	1.0	.97	.58	13	.13	.08	---
Fertilize, horses	1-row	1.0	1.88	3.66	23	.43	---	.84
Fertilize, horses	2-row	1.0	1.73	2.59	14	.24	---	.36
List	2-row	1.0	1.10	1.05	10	.11	.10	---
List, horses	1-row	1.0	1.89	3.68	80	1.51	---	2.94
Drag, plank, horse	7-foot	1.0	.83	.83	30	.25	---	.25
Transplant by hand	---	1.0	19.60	---	100	19.60	---	---
Harrow, spiketooth, h.	3-foot	1.0	1.56	1.46	53	.83	---	.77
Cultivate, first, horses	1-row	1.0	2.62	3.82	93	2.44	---	3.55
Cultivate, first	2-row	1.0	.74	.70	7	.05	.05	---
Cultivate, other, horses	1-row	1.0	2.10	2.86	100	2.10	---	2.86
Hoe by hand	---	1.7	35.45	---	100	60.26	---	---
Total preharvest						93.92	3.84	14.19
Dig	1-row	1.0	2.00	1.91	42	.84	.80	---
Dig, horses	1-row	1.0	4.26	8.28	58	2.47	---	4.80
Pick-up by hand	---	1.0	30.25	---	100	30.25	---	---
Load and haul	---	1.0	6.36	2.43	24	1.53	.58	---
Load and haul, horses	---	1.0	3.66	7.13	16	.59	---	1.14
Haul to market, truck 1/	---	1.0	5.15	2.46	33	1.70	---	---
Total harvest						37.38	1.38	5.94
Total 2/						131.30	5.22	20.13

1/ Twenty-seven percent was sold in the field.

2/ In addition, truck use averaged 0.81 hour an acre.

SWEETPOTATOES: RESOURCES USED IN PRODUCTION, AREA IX-D2, 1949

The data presented here are based on a survey made in 1950 of 36 farms that produced sweetpotatoes in 1949. These farms are located in type-of-farming area IX-D2, a peanut and general farming area in the coastal plains of southern Alabama and Georgia.

The farms surveyed averaged 405 acres. In 1949, cropland per farm averaged 238 acres, of which 12.6 acres were in sweetpotatoes. The average yield of sweetpotatoes was 109 bushels an acre.

Tractors provided the power used in producing sweetpotatoes on about two-thirds of the farms surveyed. The drawbar-horsepower rating of these tractors ranged from 7 to 27; the most common was about 14.

Materials used and contract work hired, 1949 1/

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Plant bed:						
Home-grown seed	Bu.	8.6	2.50	21.50	60	12.90
Treating materials	Acre	1.0	.29	.29	60	.17
Fertilizer (4-8-6)	Cwt.	.35	1.90	.66	60	.40
Field:						
Purchased plants	1,000	11.0	2.05	22.55	40	9.02
Fertilizer (4-8-6)	Cwt.	6.45	1.90	12.26	100	12.26
Crates	No.	78	.32	24.96	92	22.96
Total materials						57.71

1/ No contract work was reported on farms surveyed.

Man labor, power, and machinery used by operation in producing and harvesting sweetpotatoes, area IX-D2, southern Alabama and southern Georgia, 1949

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs
Grow plants	---	1.0	4.07	---	60	2.44	---	---
Tractor	---	1.0	---	0.43	60	---	0.26	---
Mule	---	1.0	---	.09	60	---	---	0.05
Plow, disk tiller	---	1.0	1.18	1.12	87	1.03	.97	---
Plow, turn plow, mules	---	1.2	5.24	9.52	2	.13	---	.23
Plow, turn plow, mule	---	1.2	6.52	5.93	1	.08	---	.07
Disk, tandem	6-foot	1.3	.53	.51	49	.34	.32	---
Disk, single, mules	4-foot	1.5	2.10	4.04	1	.03	---	.06
Mark rows & bed 1/	---	1.0	2.36	1.40	86	2.03	1.20	---
Mark rows & bed, m. 1/	---	1.0	8.10	7.06	14	1.13	---	.99
Drag	---	1.0	.76	.72	45	.34	.32	---
Drag, mules	---	1.0	1.04	1.40	5	.05	---	.07
Level beds by hand	---	1.0	9.58	---	1	.10	---	---
Pull and set plants	---	1.0	35.00	---	100	35.00	---	---
Pull and reset plants	---	1.0	13.56	---	42	5.70	---	---
Cultivate	2-row	2.9	1.15	1.10	80	2.67	2.55	---
Cultivate, mules	1-row	1.8	1.79	3.43	8	.26	---	.49
Cultivate, mule	½-row	2.9	3.81	3.64	14	1.55	---	1.48
Hoe by hand	---	1.6	14.55	---	78	18.16	---	---
Total preharvest						71.04	5.62	3.44
Cut vines by hand	---	1.0	10.42	---	3	.31	---	---
Cut vines, disk cultivator	1-row	1.0	.76	.73	29	.22	.21	---
Cut vines, disk cultivator, mules	1-row	1.0	1.41	2.72	9	.13	---	.24
Dig	1-row	1.0	1.83	1.57	48	.88	.75	---
Dig, turn plow, mules	---	1.0	3.56	6.81	47	1.67	---	3.20
Dig, turn plow, mule	---	1.0	6.51	6.22	5	.33	---	.31
Pick, grade & haul, t.	---	1.0	60.81	2.15	90	54.73	---	---
Pick, grade & haul, m.	---	1.0	60.81	10.00	10	6.08	---	1.00
Total harvest						64.35	.96	4.75
Total 2/						135.39	6.58	8.19

1/ Includes fertilizing.

2/ In addition, truck use averaged 1.94 hours an acre.

MARKET TOMATOES: RESOURCES USED IN PRODUCTION, AREA VII-A6, 1950

The data presented here are based on a survey made in 1951 of 38 farms producing tomatoes for market in type-of-farming area VII-A6. Tomatoes are produced in scattered areas of the eastern part of the Sand Mountain area, a specialized cotton area in north central Alabama.

The farms surveyed averaged 76 acres, of which 46 were in crops. In 1950, approximately 7 acres were in tomatoes, and the average yield was 110 bushels an acre.

Draft animals provided the power used on most of these farms. Tractors were reported on 26 percent of the farms surveyed and were used for some operations on about half of the acres planted. The drawbar-horsepower rating of these tractors ranged from 7 to 19; the most common was about 13.

Materials used and contract work hired, 1950

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed	Lb.	0.6	5.45	3.27	58	1.90
Plants	1,000	2.2	3.65	8.03	42	3.37
Manure	Ton	5	1/ 2.00	10.00	8	.80
Mixed fertilizer (4-10-7)	Cwt.	8.55	2.05	17.53	65	11.39
Mixed fertilizer (6-8-4)	Cwt.	8.80	2.20	19.36	38	7.36
Nitrate fertilizer (16-0-0)	Cwt.	1.25	2.90	3.62	16	.58
Potash fertilizer	Cwt.	1.40	3.10	4.34	6	.26
Ziram	Lb.	83.0	.16	13.28	22	2.92
Calcium arsenate	Lb.	5.6	.09	.50	9	.04
Copper sulphate	Lb.	7.1	.12	.85	24	.20
Other dusts 2/	Lb.	16.5	.15	2.48	10	.25
Baskets	Doz.	7.5	1.10	8.25	100	8.25
Total materials						37.32

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Hauling	Ton	2.9	3.00	8.70	7	.61
Total contract work						.61

1/ Estimated.

2/ Miscellaneous mixtures.

Man labor, power, and machinery used by operation in producing and harvesting market tomatoes, area VII-A6, north central Alabama, 1950

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, m. & wagon	---	1.0	5.97	9.20	8	0.48	---	0.74
Haul fertilizer, mules	---	1.0	1.67	3.34	8	.13	---	.27
Cut stalks, mules	---	1.0	1.38	2.75	57	.79	---	1.57
Plow, disk	2 disk	1.0	1.82	1.73	59	1.07	1.02	---
Plow, moldboard, mules	1-10 inch	1.0	4.99	9.98	38	1.90	---	3.79
Disk, tandem	6-foot	1.3	.84	.77	68	.74	.68	---
Disk, single, mules	4-foot	1.0	2.47	4.94	4	.10	---	.20
Harrow	8-foot	1.0	.39	.36	7	.03	.03	---
Harrow, spiketooth, mules	7-foot	1.0	1.02	2.04	13	.13	---	.27
Drag, mules	8-foot	1.1	.76	1.51	15	.13	---	.25
List, mule	1-row	1.0	1.29	1.29	3	.04	---	.04
Lay off rows	1-row	1.0	1.25	1.25	35	.44	.44	---
Lay off rows, mules	1-row	1.0	1.66	2.82	63	1.05	---	1.78
Fertilize	1-row	1.0	1.10	1.05	21	.23	.22	---
Fertilize, mule	1-row	1.0	1.49	1.49	77	1.15	---	1.15
Scratch	1-row	1.0	1.10	1.10	16	.18	.18	---
Scratch, mule	1-row	1.0	1.25	1.25	40	.50	---	.50
Plant seed, mule	1-row	1.0	1.49	1.49	36	.54	---	.54
Plant seed by hand	---	1.0	2.29	---	3	.07	---	---
Transplant	1-row	1.0	7.39	2.58	28	2.07	.72	---
Transplant by hand	---	1.0	14.72	---	33	4.86	---	---
Cultivate	1-row	3.0	1.03	.99	16	.49	.48	---
Cultivate, mule	1-row	4.2	2.26	2.26	84	7.97	---	7.97
Run middles, mule	---	1.5	1.50	1.50	9	.20	---	.20
Hoe by hand	---	1.2	4.98	---	72	4.31	---	---
Dust by hand	---	3.3	1.35	---	70	3.12	---	---
Sidedress by hand	---	1.0	1.65	---	23	.38	---	---
Total preharvest						33.10	3.77	19.27
Pick by hand	---	7.0	13.60	---	100	95.20	---	---
Haul, truck	---	7.0	4.94	4.23	93	32.16	---	---
Haul, truck, contract	---	7.0	3.68	3.15	7	1.80	---	---
Total harvest						129.16	---	---
Total 1/						162.26	3.77	19.27

1/ In addition, truck use averaged 29.08 hours an acre.

WINTER WHEAT: RESOURCES USED IN PRODUCTION, AREA IV-F3, 1949

The data presented here are based on a 1950 survey of 60 farms producing wheat in type-of-farming area IV-F3, northern Piedmont. This dairy and general farming area comprises parts of Pennsylvania, Maryland, Virginia and Delaware. Wheat schedules were taken in the first three of these States.

The farms surveyed averaged 208 total acres, of which 135 were in crops, including 34 in wheat. In 1949, the average yield of wheat in this area was 20 bushels an acre.

Tractors provided most of the power used on farms in this area; they were used for operations listed in the following tables unless otherwise indicated. The drawbar-horsepower rating of these tractors ranged from 10 to 26; the most common was about 19.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	1.9	2.60	4.94	100	4.94
Manure	Ton	5	2/ 2.00	10.00	15	1.50
Fertilizer (3-12-6)	Cwt.	3.05	2.00	6.10	87	5.31
Limestone	Ton	1.0	6.30	6.30	3	.19
Twine	Lb.	2.5	.24	.60	50	.30
Total materials						12.24

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Combining	Acre	1.0	5.00	5.00	18	.90
Threshing	Bu.	20	.09	1.80	29	.52
Total contract work						1.42

1/ Approximately 36 percent of the farmers in this area purchased seed wheat.

2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting winter wheat, area IV-F3, northern Piedmont, 1949

Operation	Size of equipment	Times over	Time per acre once over		Acreage covered	Average time per acre - all farms	
			Man	Power		Man	Tractor
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.
Apply manure	75-bu.	1.0	2.60	1.30	15	0.39	0.20
Fertilize, spreader	8-foot	1.0	.68	.44	2	.01	.01
Plow	2-14 inch	1.0	1.43	1.36	78	1.12	1.06
Disk, tandem	7-foot	2.2	.55	.52	63	.76	.72
Disk and harrow	7-foot	2.8	.58	.56	17	.28	.27
Harrow, springtooth	10-foot	2.2	.44	.42	47	.46	.43
Harrow, spiketooth	15-foot	1.4	.26	.25	34	.12	.12
Seed, drill	8-foot	1.0	.77	.49	78	.60	.38
Seed, drill, horses	8-foot	1.0	1.10	2.10	22	.24	---
Total preharvest						3.98	3.19
Combine	6-foot	1.0	1.32	.84	32	.42	.27
Combine (contract)	6-foot	1.0	1.32	.84	18	.24	.15
Haul from combine	---	1.0	.50	.25	26	.13	.06
Haul from combine, t.	1½-ton	1.0	.50	.25	24	.12	---
Bind	8-foot	1.0	1.38	.71	50	.69	.36
Shock by hand	---	1.0	1.10	---	50	.55	---
Haul bundles	---	1.0	3.50	.63	46	1.61	.29
Haul bundles, horses	---	1.0	3.50	3.30	4	.14	---
Thresh	28-inch	1.0	.74	.35	21	.16	.07
Thresh (contract)	28-inch	1.0	.74	.35	29	.21	.10
Haul from thresher	---	1.0	.42	.20	50	.21	.10
Total harvest						4.48	1.40
Total 1/						8.46	4.59

1/ In addition, horse work averaged 0.59 hour an acre and truck work averaged 0.06 hour an acre.

WHEAT: RESOURCES USED IN PRODUCTION, AREA VI-H2, 1951

The data presented here are based on a survey made in 1952 of 30 farms producing wheat in south central Tennessee. These farms are located in type-of-farming area VI-H2, a livestock and tobacco farming area in the Highland Rim of Tennessee.

The farms surveyed averaged 194 acres, of which 144 were in crops. In 1951, 21 acres were in wheat, and the average yield was 24 bushels an acre.

Tractors provided most of the power used on these farms, although horses were used for some operations. The drawbar-horsepower rating of these tractors ranged from 13 to 29; the most common was about 20.

Materials used and contract work hired, 1951

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	1.2	2.70	3.24	100	3.24
Manure	Ton	6	2/ 2.00	12.00	4	.48
Mixed fertilizer(3-9-6)	Cwt.	2.45	2.05	5.02	61	3.06
Mixed fertilizer	Cwt.	2.25	2.25	5.06	33	1.67
Nitrate fertilizer(32-0-0	Cwt.	1.20	3.00	3.60	13	.47
Basic slag	Ton	.2	13.00	2.60	2	.05
Binder twine	Lb.	2/ 3.5	2/ 25	.88	9	.08
Sack strings	No.	19	.01	.19	17	.03
Sacks	No.	10	.20	2.00	3	.06
Total materials						9.14

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Combining	Acre	1.0	5.88	5.88	13	.76
Total contract work						.76

1/ In this area 47 percent of the farmers used home-grown seed.
2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting wheat, area VI-H2, south central Tennessee, 1951

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	1-ton	1.0	9.05	2.42	4	0.36	0.10	---
Plow, moldboard	2-16 inch	1.0	1.09	1.04	27	.29	.28	---
Plow, disk	2-disk	1.0	1.45	1.39	64	.93	.89	---
Disk, tandem	7-foot	2.5	.50	.47	100	1.25	1.18	---
Harrow, spiketooth	8-foot	1.3	.28	.25	33	.12	.11	---
Harrow, spiketooth, h.	6-foot	2.0	.38	.73	5	.04	---	0.07
Harrow and drag	8-foot	1.6	.40	.37	30	.19	.18	---
Cultipack	8-foot	1.6	.46	.44	24	.18	.17	---
Drag, wooden	10-foot	1.3	.26	.25	16	.05	.05	---
Seed, drill	8-foot	1.0	.89	.47	87	.77	.41	---
Seed, drill, horses	7-foot	1.0	2.13	2.20	13	.28	---	.29
Total preharvest						4.46	3.37	.36
Combine	6-foot	1.0	1.88	.82	65	1.22	.53	---
Combine, contract	6-foot	1.0	1.88	.82	13	.24	.11	---
Combine, self-propelled	9-foot	1.0	1.25	.55	13	.16	---	---
Haul grain	---	1.0	1.47	.74	6	.09	.04	---
Haul grain, truck	---	1.0	.96	.40	79	.76	---	---
Haul grain, horses	---	1.0	2.63	2.00	6	.16	---	.12
Bind	10-foot	1.0	1.01	.46	9	.09	.04	---
Shock by hand	---	1.0	2.77	---	9	.25	---	---
Haul bundles, horses	---	1.0	7.39	4.20	9	.67	---	.38
Thresh and store	18-inch	1.0	1.40	.62	9	.13	.06	---
Total harvest						3.77	.78	.50
Total 1/						8.23	4.15	.86

1/ In addition, truck use averaged 0.32 hour an acre and self-propelled combines 0.07 hour an acre.

WHEAT: RESOURCES USED IN PRODUCTION, AREA VI-J2, 1949

The data presented here are based on a survey made in 1950 of 25 farms producing wheat in eastern Tennessee. These farms are located in type-of-farming area VI-J2, a livestock and dairy area in the Great Appalachian Valley.

The farms surveyed averaged 223 acres of which 163 acres were in crops. In 1949, 22 acres were in wheat and the average yield was 14 bushels an acre.

Tractors provided most of the power used on these farms, although draft animals were used for some operations. The drawbar-horsepower ratings of these tractors ranged from 12 to 25; the most common was about 15.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	1.3	1.90	2.47	68	1.68
Purchased seed	Bu.	1.3	2.60	3.38	32	1.08
Clean seed	Bu.	1.3	.12	.16	20	.03
Manure	Ton	6	1/2.00	12.00	10	1.20
Mixed fertilizer(3-9-6)	Cwt.	2.50	1.90	4.75	80	3.80
Nitrate fertilizer	Cwt.	.75	3.90	2.92	8	.23
Phosphate fertilizer (0-20-0)	Cwt.	2.35	1.40	3.29	24	.79
Phosphate fertilizer (0-40-0)	Cwt.	3.00	2.80	8.40	6	.50
Potash fertilizer	Cwt.	.30	3.00	.90	6	.05
Lime	Ton	2.0	2.10	4.20	23	.97
Twine, binder	Lb.	1.6	.24	.38	76	.29
Sacks	No.	10.0	.10	1.00	100	1.00
Total materials						11.58

CONTRACT WORK HIRED

Threshing	Bu.	14	0.12	1.68	76	1.28
Total contract work						1.28

1/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting winter wheat, area VI-J2, eastern Tennessee, 1949

Operation	Size of equipment	Times over	Time per acre: once over: Man	Time per acre: once over: Power	Acreage covered	Average time per acre - all farms: Man	Average time per acre - all farms: Tractor	Average time per acre - all farms: Mule
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, mule-sp.	---	1.0	5.10	4.07	10	0.51	---	0.41
Spread lime	---	1.0	5.47	2.38	23	1.26	0.55	---
Plow, disk	2-disk	1.0	2.50	2.39	29	.72	.69	---
Plow, disk	3-disk	1.0	1.83	1.75	9	.16	.16	---
Subsoil	---	1.0	1.85	1.77	17	.31	.30	---
Bush and bog, disk	---	1.1	1.32	1.26	28	.41	.39	---
Disk, tandem	7-foot	2.0	.70	.67	94	1.32	1.26	---
Disk, single, mules	6-foot	2.0	1.53	4.39	5	.15	---	.44
Cultipack	---	1.0	.37	.35	15	.06	.05	---
Harrow, spiketooth	---	1.3	.54	.52	37	.26	.25	---
Fertilize	---	1.0	1.04	.50	11	.11	.06	---
Seed, drill	---	1.0	1.55	.82	77	1.19	.63	---
Seed, drill, mules	---	1.0	2.25	2.92	23	.52	---	.67
Total preharvest						6.98	4.34	1.52
Combine	6-foot	1.0	2.26	.96	24	.54	.23	---
Haul grain, truck	---	1.0	.45	.44	24	.11	---	---
Bind	8-foot	1.0	1.42	.65	76	1.08	.49	---
Shock by hand	---	1.0	1.65	---	76	1.25	---	---
Haul bundles, truck	---	1.0	1.84	1.13	14	.26	---	---
Haul bundles, mules	---	1.0	2.66	2.76	62	1.65	---	1.71
Thresh, contract	---	1.0	1.29	.32	76	.98	.24	---
Total harvest						5.87	.96	1.71
Total 1/						12.85	5.30	3.23

1/ In addition, truck use averaged 0.27 hour an acre.

WHEAT: RESOURCES USED IN PRODUCTION, AREA VI-J2, 1950

The data presented here are based on a survey made in 1951 of approximately 20 farms producing wheat in the Shenandoah Valley of northwestern Virginia. These farms are located in type-of-farming area VI-J2, a livestock and dairy area of the Great Appalachian Valley.

The farms surveyed averaged 122 acres, of which 60 acres were in cropland. In 1950, 10 acres were in wheat, and the average yield was 19 bushels an acre.

Draft animals provided most of the power used on these farms, although tractors were reported on 37 percent of the farms surveyed. The drawbar-horsepower rating of these tractors ranged from 10 to 20; the most common was 14.

Materials used and contract work hired, 1950

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	1.7	2.45	4.16	100	4.16
Manure	Ton	1	2/2.00	2.00	32	.64
Mixed fertilizer (3-12-6)	Cwt.	3.10	1.85	5.74	100	5.74
Binder twine	Lb.	2.2	.26	.57	100	.57
Total materials						11.11

CONTRACT WORK HIRED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
Binding	Acre	1.0	2.30	2.30	5	.12
Threshing	Bu.	10	.09	.90	63	.57
Total contract work						.69

1/ Approximately 26 percent of the farmers in this area purchased seed wheat. 2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting wheat, area VI-J2, northwestern Virginia, 1950

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	---	1.0	10.46	3.17	15	1.57	0.48	---
Apply manure, h. & wagon	---	1.0	5.45	10.90	17	.93	---	1.85
Plow, moldboard	2-14 inch	1.0	1.57	1.50	15	.24	.22	---
Plow, moldboard, horses	1-12 inch	1.0	8.40	16.80	21	1.76	---	3.53
Disk, tandem	8-foot	1.5	.58	.52	53	.46	.41	---
Disk, tandem, horses	6-foot	3.3	1.89	5.67	46	2.87	---	8.61
Harrow, springtooth	6-foot	1.7	1.44	1.31	8	.20	.18	---
Harrow, springtooth, h.	6-foot	2.0	1.60	4.25	77	2.46	---	6.54
Drag, horses	7-foot	1.9	1.69	4.01	72	2.31	---	5.49
Seed, drill	6-foot	1.0	1.04	.94	36	.37	.34	---
Seed, drill, horses	5-foot	1.0	1.63	3.26	64	1.04	---	2.09
Total preharvest						14.21	1.63	28.11
Bind	8-foot	1.0	1.54	.79	47	.72	.37	---
Bind, contract	8-foot	1.0	1.54	.79	5	.08	.04	---
Bind, horses	7-foot	1.0	1.70	3.72	48	.82	---	1.79
Shock	---	1.0	1.73	---	100	1.73	---	---
Haul to barn	---	1.0	3.15	.67	11	.35	.07	---
Haul to barn, horses	---	1.0	3.14	2.73	26	.82	---	.71
Remove from barn	---	1.0	2.34	---	37	.87	---	---
Thresh from barn, c.	28-inch	1.0	.56	.40	37	.21	.15	---
Haul bundles	---	1.0	5.82	1.39	20	1.16	.28	---
Haul bundles, horses	---	1.0	5.82	2.77	26	1.51	---	.72
Haul bundles, truck	1½-ton	1.0	5.82	1.06	17	.99	---	---
Thresh, contract	28-inch	1.0	.86	.52	63	.54	.33	---
Total harvest						9.80	1.24	3.22
Total 1/						24.04	2.87	31.33

1/ In addition, truck use averaged 0.18 hour an acre.

WHEAT: RESOURCES USED IN PRODUCTION, AREA VI-L1, VIRGINIA, 1949

The data presented here are based on a survey made in 1950 of 74 farms producing wheat in eastern Virginia. These farms are located in type-of-farming area VI-L1, a truck, grain, and livestock area in the Tidewater section.

The farms surveyed averaged 354 acres. In 1949, 145 acres were in crops, including 32 acres in wheat. The average yield was 21 bushels an acre.

Tractors provided most of the power used on these farms. The drawbar-horsepower rating of the tractors on these farms ranged from 12 to 25; the most common was about 15.

Materials used and contract work hired, 1949

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Home-grown seed	Bu.	1.6	2.10	3.36	53	1.78
Purchased seed	Bu.	1.6	3.20	5.12	47	2.41
Clean and treat seed	Bu.	1.6	.15	.24	23	.06
Clean seed	Bu.	1.6	.10	.16	13	.02
Treat seed	Bu.	1.6	.05	.08	19	.02
Manure	Ton	5	1/ 2.00	10.00	4	.40
Mixed fertilizer(3-12-6)	Cwt.	4.70	1.85	8.70	98	8.53
Nitrate of soda	Cwt.	1.55	2.85	4.42	20	.88
Calcium nitrate	Cwt.	1.45	3.30	4.78	5	.24
Total materials						14.34

CONTRACT WORK HIRED

Combining	Acre	1.0	5.25	5.25	10	.52
Total contract work						.52

1/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting wheat, area VI-L1, eastern Virginia, 1949

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	---	1.0	6.20	1.60	2	0.12	0.03	---
Apply manure, horses-sp.	---	1.0	6.60	11.70	2	.13	---	0.23
Clean seed, fanning mill	---	1.0	.19	---	24	.05	---	---
Plow, moldboard	2-14 inch	1.0	1.63	1.56	57	.93	.89	---
Plow, moldboard	2-18 inch	1.0	1.18	1.13	25	.30	.28	---
Plow, moldboard	3-16 inch	1.0	.82	.78	13	.11	.10	---
Disk, tandem	6-foot	2.1	.63	.60	96	1.27	1.21	---
Haul material to field	---	1.0	.34	.23	38	.13	.09	---
Haul material to field, h.	---	1.0	.15	.26	12	.02	---	.03
Spread lime	---	1.0	1.08	.58	16	.17	.09	---
Fertilize, spreader	---	1.0	1.38	.54	36	.50	.19	---
Harrow, spiketooth	12-foot	1.3	.44	.42	47	.27	.26	---
Seed, drill	7-foot	1.0	1.23	.78	91	1.12	.71	---
Seed, drill, horses	---	1.0	1.77	2.90	9	.16	---	.26
Weed and rogue	---	1.0	.65	---	21	.14	---	---
Total preharvest						5.42	3.85	.52
Combine	6-foot	1.0	2.17	.92	85	1.84	.78	---
Combine, contract	6-foot	1.0	2.17	.92	10	.22	.09	---
Bind	---	1.0	1.68	.82	5	.08	.04	---
Shock by hand	---	1.0	1.75	---	5	.09	---	---
Haul bundles, horses	---	1.0	2.24	2.36	5	.11	---	.12
Thresh	---	1.0	1.33	.46	5	.07	.02	---
Haul from thresher	---	1.0	.69	.24	5	.03	.01	---
Haul grain, horses	---	1.0	1.03	1.26	10	.10	---	.13
Haul grain, truck	---	1.0	.80	.42	66	.53	---	---
Haul to market, truck	---	1.0	1.26	.59	19	.24	---	---
Total harvest						3.28	1.06	.25
Total 1/						8.70	4.91	.77

1/ In addition, truck use averaged 0.39 hour an acre.

WHEAT (AFTER CORN): RESOURCES USED IN PRODUCTION, AREA VI-J2, 1950

The data presented here are based on a survey made in 1951 of approximately 20 farms producing wheat, after corn, in the Shenandoan Valley of northwestern Virginia. These farms are located in type-of-farming area VI-J2, a livestock and dairy area of the Great Appalachian Valley.

The farms surveyed averaged 122 acres of which 60 acres were in cropland. In 1950, 10 acres were in wheat, after corn, and the average yield was 19 bushels an acre.

Draft animals provided most of the power used on these farms, although tractors were reported on 37 percent of the farms surveyed. The drawbar-horsepower rating of these tractors ranged from 10 to 20; the most common was 14.

Materials used and contract work hired, 1950

MATERIALS USED

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Seed 1/	Bu.	1.7	2.45	4.16	100	4.16
Manure	Ton	1	2/ 2.00	2.00	32	.64
Mixed fertilizer (3-12-6)	Cwt.	3.10	1.85	5.74	100	5.74
Binder twine	Lb.	2.2	.26	.57	100	.57
Total materials						11.11

CONTRACT WORK HIRED

Binding	Acre	1.0	2.30	2.30	5	0.12
Threshing	Bu.	19	.09	1.71	63	1.08
Total contract work						1.20

1/ Approximately 26 percent of the farmers in this area purchased seed wheat.

2/ Estimated.

Man labor, power, and machinery used by operation in producing and harvesting wheat, after corn, area VI-J2, northwestern Virginia, 1950

Operation	Size of equipment	Times over	Time per acre: once over		Acreage covered	Average time per acre - all farms		
			Man	Power		Man	Tractor	Horse
		No.	Hrs.	Hrs.	Pct.	Hrs.	Hrs.	Hrs.
Apply manure, spreader	---	1.0	10.46	3.17	15	1.57	0.48	---
Apply manure, h. & wagon	---	1.0	5.45	10.90	17	.93	---	1.85
Disk, tandem	8-foot	2.2	.60	.55	55	.73	.67	---
Disk, tandem, horses	6-foot	2.6	1.18	2.82	31	.95	---	2.27
Harrow, springtooth	7-foot	2.2	.38	.35	6	.05	.05	---
Harrow, springtooth, h.	6-foot	2.6	1.60	3.83	26	1.08	---	2.59
Seed, drill	6-foot	1.0	1.04	.94	36	.37	.34	---
Seed, drill, horse	5-foot	1.0	1.63	3.26	64	1.04	---	2.09
Total preharvest						6.72	1.54	8.80
Bind	8-foot	1.0	1.54	.79	47	.72	.37	---
Bind, contract	8-foot	1.0	1.54	.79	5	.08	.04	---
Bind, horses	7-foot	1.0	1.70	3.72	48	.82	---	1.79
Shock	---	1.0	1.73	---	100	1.73	---	---
Haul to barn	---	1.0	3.15	.67	11	.35	.07	---
Haul to barn, horses	---	1.0	3.14	2.73	26	.82	---	.71
Remove from barn	---	1.0	2.34	---	37	.87	---	---
Thresh from barn, c.	28-inch	1.0	.56	.40	37	.21	.15	---
Haul bundles	---	1.0	5.82	1.39	20	1.16	.28	---
Haul bundles, horses	---	1.0	5.82	2.77	26	1.51	---	.72
Haul bundles, truck	1½-ton	1.0	5.82	1.06	17	.99	---	---
Thresh, contract	28-inch	1.0	.86	.52	63	.54	.33	---
Total harvest						9.80	1.24	3.22
Total						16.52	2.78	12.02

1/ In addition, truck use averaged 0.18 hour an acre.

FLUE-CURED TOBACCO, TYPE 11: RESOURCES USED IN PRODUCTION, AREA VI-H4, 1949

The data presented here are based on a survey made in 1950 of 20 farms producing flue-cured tobacco in central Virginia. These farms are located in type-of-farming area VI-H4, a livestock and tobacco area in the central Virginia Piedmont.

The farms surveyed averaged 138 acres. Acreage of flue-cured tobacco per farm in 1949 ranged from 1.7 to 10.4 acres. The average acreage per farm was 4.8, with 3 to 6 acres being the most common. The average yield of flue-cured was 1,256 pounds an acre. Fire-cured tobacco was also produced on some of these farms.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Fertilizer(3-9-6)	Cwt.	2.00	2.25	4.50	100	4.50
Nitrate of soda	Cwt.	.25	3.05	.76	61	.46
Seed	Ounce	.5	1.10	.55	100	.55
Cotton cloth	100 sq. yd.	1.0	8.90	8.90	100	1/ 2.34
Fermate	Lb.	4.1	.69	2.83	73	2.07
Total						9.92

1/ Annual cost allocated on the basis of an average life of 3.8 years.

Materials used and contract work hired in producing and harvesting flue-cured tobacco, type 11, area VI-H4, central Virginia, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.86	9.92	8.53	100	8.53
Cover crop seed						
Rye	Bu.	1.5	2.55	3.82	18	.69
Ryegrass	Lb.	16	.15	2.40	12	.29
Manure	Ton	2	[1]2.00	4.00	48	1.92
Fertilizer (3-9-6)	Cwt.	12.20	2.25	27.45	100	27.45
Fertilizer (5-5-20)	Cwt.	1.15	3.00	3.45	48	1.66
Arsenate of lead	Lb.	8.3	.40	3.32	89	2.95
Paris green	Lb.	1.6	.60	.96	34	.33
Total preharvest						43.82
Harvest						
Barns and pack houses, repair & depreciation	---	---	---	---	---	[2]25.72
Sticks, depreciation	---	---	---	---	---	[3] 2.13
Twine	Lb.	2.6	.58	1.51	100	1.51
Oil	Gal.	205.5	.14	28.77	16	4.60
Wood	Cord	2.5	10.00	25.00	77	19.25
Coal	Ton	1.2	16.00	19.20	7	1.34
Hauling, contract	Cwt.	12.56	.50	6.28	33	2.07
Total harvest						56.62
Total						100.44

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[1] Estimated.

[2] About 10 percent of the value of the tobacco barns and packhouses was charged to repair and depreciation.

[3] Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting flue-cured tobacco, type 11, area VI-H4, central Virginia, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	34.59	6.60	1.94	---	---
Preharvest					
Plant bed 1/	29.85	5.69	1.67	---	---
Cover crop	2.30	1.80	.40	---	---
Land preparation	29.90	31.00	3.00	---	---
Transplanting	34.60	2.30	---	---	---
Growing	109.90	11.90	1.30	---	---
Total preharvest	206.55	52.69	6.37	---	---
Harvest					
Harvesting	163.20	28.20	6.40	---	---
Curing	72.00	---	---	---	---
Taking out	9.20	2.90	3.80	---	---
Grading	122.70	---	---	---	---
Hauling, contract	1.19	---	---	20.24	---
Marketing	13.20	---	---	40.90	9.00
Total harvest	381.49	31.10	10.20	61.14	9.00
Total	588.04	83.79	16.57	61.14	9.00

1/ About 86.3 square yards of plant bed required for one acre of tobacco.

FLUE-CURED TOBACCO, TYPE 11: RESOURCES USED IN PRODUCTION, AREA VIII-A1, 1949

The data presented here are based on a survey made in 1950 of 79 farms producing flue-cured tobacco in south central Virginia and north central North Carolina. These farms are located in type-of-farming area VIII-A1, a tobacco and general farming area in the Piedmont.

The farms surveyed averaged 139 acres. Tobacco acreage per farm in 1949 ranged from 2.9 to 62.1 acres. The average acreage per farm was 9.7, with 5 to 15 acres being the most common. The average yield of tobacco was 1,184 pounds an acre.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.15	4.20	4.83	24	1.16
Fertilizer (3-9-6)	Cwt.	1.85	2.35	4.35	100	4.35
Nitrate fertilizer	Cwt.	.20	3.05	.61	78	.48
Seed	Ounce	.4	1.40	.56	100	.56
Cotton cloth	100 sq. yd.	1.0	9.70	9.70	100	1/2.30
Fermate	Lb.	3.2	.75	2.40	80	1.92
Total						10.77

1/ Annual cost allocated on the basis of an average life of 4.2 years.

Materials used and contract work hired in producing and harvesting flue-cured tobacco, type 11, area VIII-A1, south central Virginia and north central North Carolina, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.72	10.77	7.75	100	7.75
Plants bought						
Partial bed failure 1/	---	---	---	8.65	10	.86
Cover crop seed						
Crimson clover	Lb.	13	.22	2.86	27	.77
Rye	Bu.	1.2	2.75	3.30	40	1.32
Manure	Ton	3	2/2.00	6.00	26	1.56
Fertilizer (3-9-6)	Cwt.	11.90	2.30	27.37	100	27.37
Fertilizer (5-5-20)	Cwt.	1.25	3.15	3.94	52	2.05
Nitrate of soda	Cwt.	.80	3.10	2.48	13	.32
Arsenate of lead	Lb.	4.3	.34	1.46	69	1.01
Paris green	Lb.	.3	.70	.21	27	.06
Spraying, plane, contract	---	---	---	4.65	6	.28
Total preharvest						43.35
Harvest						
Barns and packhouses, repair & depreciation	---	---	---	---	---	3/ 23.07
Sticks, depreciation	---	---	---	---	---	4/ 2.93
Twine	Lb.	2.3	.68	1.56	100	1.56
Oil	Gal.	210.5	.13	27.36	19	5.20
Wood	Cord	3.0	10.00	30.00	80	24.00
Coal	Ton	1.0	13.90	13.90	1	.14
Hauling, contract	Cwt.	11.8	.44	5.19	31	1.61
Total harvest						58.51
Total						101.86

1/ Quantity per acre unknown.

2/ Estimated.

3/ About 10 percent of the value of the tobacco barns and packhouses was charged to repair and depreciation.

4/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting flue-cured tobacco, type 11, area VIII-A1, south central Virginia and north central North Carolina, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	40.40	7.50	1.41	---	---
Preharvest					
Plant bed 1/	29.12	5.41	1.02	---	---
Cover crop	4.20	3.90	.80	---	---
Land preparation	24.70	26.70	2.00	---	---
Transplanting	36.30	3.40	.60	---	---
Growing	99.50	22.60	.10	---	---
Cleaning up	8.10	1.40	.10	---	---
Total preharvest	201.90	63.41	4.62	---	---
Harvest					
Harvesting	163.20	36.10	1.40	---	---
Curing	66.90	---	---	---	---
Taking out	17.20	4.80	1.00	---	---
Grading	126.90	---	---	---	---
Hauling, contract	1.30	---	---	9.92	---
Marketing	18.60	.20	---	12.10	27.30
Total harvest	394.10	41.10	2.40	22.02	27.30
Total	596.00	104.51	7.02	22.02	27.30

1/ About 72.1 square yards of plant bed required for 1 acre of tobacco.

FLUE-CURED TOBACCO, TYPE 12 (TYPES 11b AND 13): RESOURCES USED IN PRODUCTION, AREAS VII-B1 AND VIII-A2, NORTH CAROLINA AND SOUTH CAROLINA, 1947

The data presented here are based on a survey made in 1948 of approximately 120 farms producing flue-cured tobacco in eastern North Carolina and South Carolina. These farms are located in type-of-farming area VII-B1, a cotton and tobacco area, and area VIII-A2, a tobacco and general farming area in the central Coastal Plains.

The farms surveyed averaged about 132 acres per farm, of which 49 acres were in crops. Tobacco acreage per farm in 1947 ranged from 2.1 to 64.7 acres. The average acreage of tobacco per farm was 10.7, with 4 to 15 acres being the most common. The average yield of tobacco was 1,229 pounds an acre.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1947

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	0.80	2.80	2.24	40	0.90
Mixed fertilizer	Cwt.	2.25	2.20	4.95	100	4.95
Cottonseed meal	Cwt.	.50	4.65	2.32	8	.19
Seed	Oz.	.8	1.40	1.12	100	1.12
Cotton cloth	100 sq.yd.	1.0	9.70	9.70	100	[1] 4.22
Nitrate of soda	Cwt.	.20	2.55	.51	30	.15
Fermate	Lb.	3.8	.28	1.06	13	.14
Total						11.67

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[1] Annual cost allocated on the basis of an average of 2.3 years.

Materials used and contract work hired in producing and harvesting flue-cured tobacco, areas VII-B1 and VIII-A2, eastern North Carolina and northeastern South Carolina, 1947

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.81	11.67	9.45	100	9.45
Cover crop seed						
Ryegrass	Lb.	25	.10	2.50	23	.58
Manure	Ton	1	1/2.00	2.00	25	.50
Mixed fertilizer(3-9-6)	Cwt.	12.25	2.15	26.34	100	26.34
Nitrate of soda	Cwt.	1.05	2.55	2.68	52	1.39
Arsenate of lead 2/	Lb.	7.6	.26	1.98	78	1.54
Total preharvest						39.80
Harvest						
Barns and packhouses, repair & depr.	---	---	---	---	---	3/18.51
Sticks, depreciation	---	---	---	---	---	4/ 1.74
Twine	Lb.	2.6	.71	1.85	100	1.85
Kerosene	Gal.	238.3	.12	28.60	62	17.73
Wood	Cord	2.2	7.95	17.49	31	5.42
Coal	Ton	1.7	13.70	23.29	7	1.63
Hauling, contract	Cwt.	12.29	.59	7.25	39	2.83
Total harvest						49.71
Total						89.51

1/ Estimated.

2/ Some paris green included.

3/ About 10 percent of the value of the tobacco barns and packhouses was charged to repair and depreciation.

4/ Tobacco sticks depreciate about 10 percent a year.

Man labor and power used per acre in producing and harvesting flue-cured tobacco, type 12 (types 11b and 13), areas VII-B1 and VIII-A2, eastern North Carolina and northeastern South Carolina, 1947

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	27.03	3.20	0.25	---	---
Preharvest					
Plant bed 1/	21.90	2.60	.20	---	---
Cover crop	1.00	1.10	.20	---	---
Land preparation	15.50	19.00	1.00	---	---
Transplanting	36.50	3.50	.20	---	---
Growing	53.80	13.60	.20	---	---
Cleaning up	6.00	1.50	---	---	---
Total preharvest	134.70	41.30	1.80	---	---
Harvest					
Harvesting	167.50	23.90	.30	---	---
Curing	29.90	---	---	---	---
Taking out	12.80	2.60	.30	---	---
Grading	127.20	---	---	---	---
Hauling, contract	2/	---	---	14.50	---
Marketing	10.90	---	---	13.40	19.40
Total harvest	348.30	26.50	.60	27.90	19.40
Total	483.00	67.80	2.40	27.90	19.40

1/ About 81.0 square yards of plant bed required for 1 acre of tobacco.

2/ Not available.

FLUE-CURED TOBACCO, TYPE 13: RESOURCES USED IN PRODUCTION, AREA VI-M1, GEORGETOWN COUNTY, SOUTH CAROLINA, 1949

The data presented here are based on a survey made in 1950 of 20 farms producing flue-cured tobacco in Georgetown County, South Carolina. These farms are located in type-of-farming area VI-M1, an area producing forest products, truck crops, and cotton in the Atlantic and Gulf Coast Flatwoods.

The farms surveyed averaged 141 acres. Tobacco acreage per farm in 1949 ranged from 0.9 to 13.7 acres. The average acreage per farm was 5.5, with 3 to 4 and 6 to 8 acres being the most common. The average yield of tobacco was 1,176 pounds an acre.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	0.50	4.50	2.25	2	0.04
Fertilizer (3-9-6)	Cwt.	1.95	2.70	5.26	100	5.26
Nitrate of soda	Cwt.	.25	3.70	.92	43	.40
Seed	Oz.	.55	2.30	1.26	100	1.26
Cotton cloth	100 sq.yd.	1.0	7.35	7.35	100	1/3.34
Fermate	Lb.	17.7	.14	2.48	71	1.76
Total						12.06

1/ Annual cost allocated on the basis of an average life of 2.2 years.

Materials used and contract work hired in producing and harvesting flue-cured tobacco, type 13, area VI-M1, Georgetown County, South Carolina, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.88	12.06	10.61	100	10.61
Manure	Ton	1	1/ 2.00	2.00	38	.76
Fertilizer (3-9-6)	Cwt.	12.50	2.35	29.38	100	29.38
Potash fertilizer	Cwt.	1.50	3.25	4.88	44	2.15
Nitrate of soda	Cwt.	.50	3.20	1.60	15	.24
Arsenate of lead	Lb.	5.6	.39	2.18	43	.94
Paris green	Lb.	3.1	.55	1.70	17	.29
Total preharvest						44.37
Harvest						
Barns and packhouses, repair & depr.	---	---	---	---	---	2/24.25
Sticks, depreciation	---	---	---	---	---	3/ 3.09
Twine	Lb.	2.7	.69	1.86	100	1.86
Oil	Gal.	180.5	.13	23.46	88	20.64
Wood	Cord	4.5	10.00	45.00	12	5.40
Hauling, contract	Cwt.	11.76	.59	6.94	13	.90
Total harvest						56.14
Total						100.51

1/ Estimated.

2/ About 10 percent of the value of tobacco barns and packhouses was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting flue-cured tobacco, type 13, area VI-M1, Georgetown County, South Carolina, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	63.40	6.70	4.60	---	---
Preharvest					
Plant bed 1/	55.60	5.88	4.03	---	---
Land preparation	31.60	14.40	8.90	---	---
Transplanting	54.00	5.00	---	---	---
Growing	85.40	9.30	3.00	---	---
Cleaning up	.30	.20	---	---	---
Total preharvest	226.90	34.78	15.93	---	---
Harvest					
Harvesting	170.90	23.10	---	---	---
Curing	30.20	---	---	---	---
Taking out	10.90	10.10	---	---	---
Grading	86.70	---	---	---	---
Hauling, contract	1.19	---	---	5.08	---
Marketing	16.50	----	---	29.40	11.20
Total harvest	316.39	33.20	---	34.48	11.20
Total	543.29	67.98	15.93	34.48	11.20

1/ About 87.7 square yards of plant bed are required for one acre of tobacco.

FLUE-CURED TOBACCO, TYPE 14: RESOURCES USED IN PRODUCTION, AREA VI-M1, GEORGIA AND FLORIDA, 1949

The data presented here are based on a survey made in 1950 of 49 farms producing flue-cured tobacco in southeastern Georgia and northern Florida. These farms are located in type-of-farming area VI-M1, an area producing forest products, truck crops, and cotton in the Atlantic and Gulfcoast Flatwoods.

The farms surveyed averaged 215 acres. Tobacco acreage per farm in 1949 ranged from 1.6 to 18.1 acres. The average acreage per farm was 4.4, with 2 to 3 acres being the most common. The average yield of tobacco was 1,214 pounds an acre.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.15	4.45	5.12	50	2.56
Mixed fertilizer(3-9-9)	Cwt.	2.35	2.35	5.52	100	5.52
Nitrate fertilizer	Cwt.	.40	4.70	1.88	30	.56
Seed	Ounce	1.1	1.80	1.98	100	1.98
Cotton cloth	100 sq.yd.	1.0	10.15	10.15	100	1/ 4.61
Fermate	Lb.	25.4	.30	7.62	94	7.16
Total						22.39

1/ Annual cost allocated on the basis of an average life of 2.2 years.

Materials used and contract work hired in producing and harvesting flue-cured tobacco, type 14, area VI-M1, southeastern Georgia and northern Florida, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.74	22.39	16.57	87	14.42
Plants bought						
None raised	1,000	6.8	3.40	23.12	13	3.00
Partial bed failure	1,000	4.9	3.00	14.70	6	.88
Manure	Ton	1	1/2.00	2.00	10	.20
Fertilizer (3-8-8)	Cwt.	12.55	2.15	26.98	49	13.22
Fertilizer (3-9-9)	Cwt.	16.70	2.30	38.41	51	19.59
Potash fertilizer	Cwt.	1.35	2.60	3.51	6	.21
Nitrate of soda	Cwt.	1.10	3.25	3.58	16	.57
Arsenate of lead	Lb.	15.2	.33	5.02	89	4.47
Paris green	Lb.	.3	.55	.16	39	.06
T.E.P.P.	Ounce	17.4	.22	3.83	15	.57
Dust, plane, contract	---	---	---	18.85	22	4.15
Total preharvest						61.34
Harvest						
Barns & packhouses, repair & depreciation	---	---	---	---	---	2/17.47
Sticks, depreciation	---	---	---	---	---	3/ 2.42
Oil	Gal.	265.0	.14	37.10	71	26.34
Wood	Cord	2.7	10.00	27.00	25	6.75
Coal	Ton	1.9	13.60	25.84	4	1.03
Twine	Lb.	3.5	.68	2.38	100	2.38
Hauling, contract	Cwt.	12.1	.46	5.57	52	2.90
Total harvest						59.29
Total						120.63

1/ Estimated.

2/ About 10 percent of the value of the tobacco barns and packhouses was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting flue-cured tobacco, type 14, area VI-M1, southeastern Georgia and northern Florida, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per -					
100 square yards	51.10	7.10	4.80	---	---
Acre of tobacco 1/	37.92	5.27	3.56	---	---
Preharvest					
Plant bed 2/	32.99	4.58	3.10	---	---
Land preparation	15.70	8.40	3.60	---	---
Transplanting	40.80	.50	.60	---	---
Growing	93.40	9.90	.60	---	---
Cleaning up	.40	.30	---	---	---
Total preharvest	183.29	23.68	7.90	---	---
Harvest					
Harvesting	203.60	12.80	2.90	---	---
Curing	38.20	---	---	---	---
Taking out	16.50	4.90	1.00	---	---
Grading	35.60	---	---	---	---
Hauling, contract	4.09	---	---	18.09	---
Marketing	14.40	---	---	18.60	9.70
Total harvest	312.39	17.70	3.90	36.69	9.70
Total	495.68	41.38	11.80	36.69	9.70

1/ About 74.2 square yards of plant bed required for 1 acre of tobacco.

2/ Eighty-seven percent of acreage planted with plants raised on the farm.

FLUE-CURED TOBACCO, TYPE 14: RESOURCES USED IN PRODUCTION, AREA VII-C1, 1949

The data presented here are based on a survey made in 1950 of 47 farms producing flue-cured tobacco in southern Georgia and northwestern Florida. These farms are located in type-of-farming area VII-C1, an area producing cotton, tobacco, hogs, and peanuts in the Lower Coastal Plains.

The farms surveyed averaged 183 acres. Tobacco acreage per farm in 1949 ranged from 1.6 to 10.2 acres. The average acreage per farm was 3.5, with 2 to 5 acres being the most common. The average yield of tobacco was 1,268 pounds an acre.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.00	4.40	4.40	45	1.98
Fertilizer (3-9-9)	Cwt.	2.25	2.55	5.74	100	5.74
Nitrate fertilizer	Cwt.	.55	4.40	2.42	40	.97
Seed	Oz.	1.0	1.60	1.60	100	1.60
Cotton cloth	100 sq.yd.	1.0	8.90	8.90	100	1/4.45
Fermate	Lb.	7.8	.55	4.29	92	3.95
Total						18.69

1/ Annual cost allocated on the basis of an average life of 2.0 years.

Materials used and contract work hired in producing and harvesting flue-cured tobacco, type 14, area VII-C1, southern Georgia and northwestern Florida, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.78	18.69	14.58	83	12.10
Plants bought						
None raised	1,000	6.2	3.25	20.15	17	3.43
Partial bed failure	1,000	3.3	3.25	10.72	5	.54
Manure	Ton	2	1/2.00	4.00	16	.64
Fertilizer (3-9-9)	Cwt.	13.60	2.35	31.96	100	31.96
Nitrate of soda	Cwt.	.85	3.10	2.64	20	.53
Arsenate of lead	Lb.	9.9	.38	3.76	97	3.65
Paris green	Lb.	8	.50	.40	33	.13
T.E.P.P. (40%)	Pt.	1.5	2.85	4.28	25	1.07
Spraying, plane, contract	---	---	---	7.24	9	.65
Total preharvest						54.70
Harvest						
Barns & packhouses, repair & depr.	---	---	---	---	---	2/20.15
Sticks, depreciation	---	---	---	---	---	3/ 2.30
Oil	Gal.	271.0	.14	37.94	48	18.21
Wood	Cord	3.1	10.00	31.00	50	15.50
Coal	Ton	3.6	14.00	50.40	2	1.01
Twine	Lb.	3.7	.65	2.40	100	2.40
Hauling, contract	Cwt.	12.7	.28	3.56	43	1.53
Total harvest						61.10
Total						115.80

1/ Estimated.

2/ About 10 percent of the value of the tobacco barns and packhouses was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting flue-cured tobacco, type 14, area VII-C1, southern Georgia and northwestern Florida, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power -					
Plant bed per -					
100 square yards	55.20	7.90	2.60	---	---
Acre of tobacco 1/	42.84	6.13	2.02	---	---
Preharvest					
Plant bed 2/	35.56	5.09	1.68	---	---
Land preparation	22.90	16.10	4.70	---	---
Transplanting	43.40	.10	.20	---	---
Growing	96.20	10.60	1.60	---	---
Cleaning up	.50	.30	---	---	---
Total preharvest	198.56	32.19	8.18	---	---
Harvest					
Harvesting	207.80	13.50	.50	---	---
Curing	61.90	---	---	---	---
Taking out	18.50	7.60	.80	---	---
Grading	32.50	---	---	---	---
Hauling, contract	6.12	---	---	13.81	---
Marketing	21.60	---	---	18.10	1.80
Total harvest	348.42	21.10	1.30	31.91	1.80
Total	546.98	53.29	9.48	31.91	1.80

1/ About 77.6 square yards of plant bed required for one acre of tobacco.

2/ Eighty-three percent of acreage planted with plants raised on the farm.

FLUE-CURED TOBACCO, TYPE 14: RESOURCES USED IN PRODUCTION, AREA IX-D2, 1949

The data presented here are based on a survey made in 1950 of 51 farms producing flue-cured tobacco in southwestern Georgia and southeastern Alabama. These farms are located in type-of-farming area IX-D2, a peanut area in the southern Coastal Plains.

The farms surveyed averaged 236 acres. Tobacco acreage per farm in 1949 ranged from 1.0 to 36.0 acres. The average acreage per farm was 4.5, with 1 to 5 acres being the most common. The average yield of tobacco was 1,040 pounds an acre.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	0.85	3.90	3.32	68	2.26
Mixed fertilizer (3-9-9)	Cwt.	2.45	2.25	5.51	100	5.51
Nitrate fertilizer	Cwt.	.30	3.55	1.06	27	.29
Cottonseed meal	Cwt.	.70	3.35	2.34	9	.21
Seed	Ounce	.9	1.35	1.22	100	1.22
Cotton cloth	100 sq. yd.	1.0	9.90	9.90	100	[1]4.30
Fermate	Lb.	26.3	.17	4.47	71	3.17
Total materials						16.96

[1] Allocated on the basis of an average life of 2.3 years.

Materials used and contract work hired in producing and harvesting flue-cured tobacco, type 14, area IX-D2, southwestern Georgia and southeastern Alabama, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.57	16.96	9.67	65	6.29
Plants bought						
None raised	1,000	6.8	4.15	28.22	35	9.88
Partial bed failure	---	---	---	1.20	18	.22
Cover crop seed						
Oats	Bu.	1.8	1.80	3.24	17	.55
Manure	Ton	2	1/2.00	4.00	30	1.20
Fertilizer (3-9-9)	Cwt.	12.90	2.25	29.02	100	29.02
Nitrate fertilizer	Cwt.	1.00	3.20	3.20	9	.29
Potash fertilizer	Cwt.	1.60	3.40	5.44	29	1.58
Arsenate of lead	Lb.	15.4	.34	5.24	94	4.93
Lime	Cwt.	.70	1.15	.80	18	.14
Paris green	Lb.	1.1	.55	.60	80	.48
T.E.P.P.	Pt.	1.2	2.20	2.64	37	.98
Total preharvest						55.56
Harvest						
Barns and packhouses, repair and depreciation	---	---	---	---	---	2/21.16
Sticks, depreciation	---	---	---	---	---	3/ 3.02
Twine	Lb.	3.2	.68	2.18	100	2.18
Oil	Gal.	189.5	.15	28.42	44	12.50
Wood	Cord	2.7	10.00	27.00	42	11.34
Coal	Ton	1.5	14.95	22.42	14	3.14
Sheets	No.	3.3	.47	1.55	31	4/ .24
Hauling, contract	Cwt.	10.4	.63	6.55	33	2.16
Total harvest						55.74
Total						111.30

1/ Estimated.

2/ About 10 percent of the value of the tobacco barns and packhouses was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

4/ Allocated on the basis of an average life of 2 years.

Man labor and power used per acre in producing and harvesting flue-cured tobacco, type 14, area IX-D2, southwestern Georgia and southeastern Alabama, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per -					
100 square yards	45.10	5.90	1.50	---	---
Acre of tobacco 1/	25.75	3.37	.86	---	---
Preharvest					
Plant bed 2/	16.74	2.19	.56	---	---
Cover crop	.50	.20	.20	---	---
Land preparation	17.90	17.90	2.30	---	---
Transplanting	47.30	---	---	---	---
Growing	121.00	24.50	1.30	---	---
Total preharvest	203.44	44.79	4.36	---	---
Harvest					
Harvesting	177.90	19.20	1.60	---	---
Curing	69.90	---	---	---	---
Taking out	18.80	2.30	1.60	---	---
Grading	70.30	---	---	---	---
Hauling, contract	1.67	---	---	8.05	---
Marketing	6.80	---	---	14.70	9.90
Total harvest	345.37	21.50	3.20	22.75	9.90
Total	548.81	66.29	7.56	22.75	9.90

1/ About 57.1 square yards of plant bed required for 1 acre of tobacco.

2/ Sixty-five percent of the acreage planted with plants raised on the farm.

FIRE-CURED TOBACCO, TYPE 21: RESOURCES USED IN PRODUCTION, AREA VI-H4, 1949

The data presented here are based on a survey made in 1950 of 36 farms producing fire-cured tobacco in central Virginia. These farms are located in type-of-farming area VI-H4, a livestock and tobacco area in the central Virginia Piedmont.

The farms surveyed averaged 232 acres. Acreage of fire-cured tobacco per farm in 1949 ranged from 0.9 to 13.1 acres. The average acreage per farm was 3.2, with 1 to 4 acres being the most common. The average yield of fire-cured was 1,233 pounds an acre. Flue-cured tobacco was also produced on some of these farms.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.00	4.05	4.05	5	0.20
Fertilizer (3-9-6)	Cwt.	1.35	2.25	3.04	100	3.04
Nitrate fertilizer	Cwt.	.25	3.10	.78	77	.60
Seed	Ounce	.7	.80	.56	100	.56
Cotton cloth	100 sq.yd.	1.0	9.00	9.00	100	1/ 2.20
Fermate	Lb.	3.8	.60	2.28	41	.93
Total						7.53

1/ Annual cost allocated on the basis of an average life of 4.1 years.

Materials used and contract work hired in producing and harvesting fire-cured tobacco, type 21, area VI-H4, central Virginia, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.74	7.53	5.57	100	5.57
Cover crop seed						
Crimson clover	Lb.	20	.25	5.00	30	1.50
Manure	Ton	8	1/2.00	16.00	64	10.24
Fertilizer (3-8-5)	Cwt.	8.10	2.10	17.01	100	17.01
Nitrate fertilizer	Cwt.	1.50	3.10	4.65	40	1.86
Arsenate of lead	Lb.	6.3	.40	2.52	46	1.16
Paris green	Lb.	.4	.90	.36	6	.02
Total preharvest						37.36
Harvest						
Barns & strip rooms, repair & depreciation	---	---	---	---	---	2/27.58
Sticks, depreciation	---	---	---	---	---	3/ 2.78
Wood	Cord	1.4	10.00	14.00	100	14.00
Hauling, contract	Cwt.	12.30	.54	6.64	9	.60
Total harvest						44.96
Total						82.32

1/ Estimated.

2/ About 10 percent of the value of tobacco barns and strip rooms was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting fire-cured tobacco, type 21, area VI-H4, central Virginia, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	45.05	12.15	1.14	---	---
Preharvest					
Plant bed 1/	33.56	9.05	.85	---	---
Cover crop	1.40	.50	.20	---	---
Land preparation	31.70	30.60	5.70	---	---
Transplanting	30.70	.50	1.30	---	---
Growing	154.40	18.80	.40	---	---
Total preharvest	251.76	59.45	8.45	---	---
Harvest					
Harvesting	64.30	9.90	3.10	---	---
Curing	26.00	---	---	---	---
Stripping	125.40	---	---	---	---
Hauling, contract	.78	---	---	5.00	---
Marketing	16.90	---	---	42.70	12.60
Total harvest	233.38	9.90	3.10	47.70	12.60
Total	485.14	69.35	11.55	47.70	12.60

1/ About 74.5 square yards of plant bed required for 1 acre of tobacco.

FIRE-CURED TOBACCO, TYPE 22: RESOURCES USED IN PRODUCTION, AREA VIII-C1, KENTUCKY, 1951

The data presented here are based on a survey in 1952 of 31 farms producing fire-cured tobacco in southwestern Kentucky. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area in the Pennyroyal section of Kentucky.

The farms surveyed averaged 255 total acres. Acreage of fire-cured tobacco per farm in 1951 ranged from 1.0 to 12.2 acres. The average acreage per farm was 4.4 with 2 to 8 acres being the most common. The average yield of fire-cured was 1,250 pounds per acre. Burley tobacco and One Sucker were also produced on some of these farms.

Draft animals provided an important part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.50	4.70	7.05	30	2.12
Wood	---	---	---	4.80	9	.43
Coal	Bu.	11.7	.31	3.63	22	.80
Steaming, contract	---	---	---	8.00	2	.16
Mixed fertilizer (6-8-6)	Cwt.	.80	2.65	2.12	98	2.08
Ammonium nitrate	Cwt.	.20	4.85	.97	43	.42
Cottonseed meal	Cwt.	.55	5.00	2.75	4	.11
Seed	Ounce	.6	1.70	1.02	100	1.02
Planks	Bd. ft.	68	.06	4.08	11	1/ .11
Canvas	100 sq.yd.	1.0	10.77	10.77	100	2/ 3.48
Bluestone	Lb.	3.2	.19	.61	27	.16
Lime	Lb.	4.8	.02	.10	27	.03
Fermate (15%)	Lb.	3.7	.22	.81	5	.04
Total						10.96

1/ Annual cost allocated on the basis of an average life of 4.0 years.
2/ Annual cost allocated on the basis of an average life of 3.1 years.

Materials used and contract work hired in producing and harvesting fire-cured tobacco, type 22, area VIII-C1, Pennyroyal, Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.48	10.96	5.26	100	5.26
Cover crop seed						
Crimson clover	Lb.	20	.26	5.20	15	.78
Vetch	Lb.	28	.23	6.44	15	.97
Vetch and rye						
Vetch	Lb.	20	.23	4.60	14	.64
Rye	Bu.	1.0	2.75	2.75	14	.38
Manure	Ton	6	[1] 2.00	12.00	73	8.76
Mixed fertilizer (6-8-6)	Cwt.	7.10	2.45	17.40	95	16.53
Ammonium nitrate	Cwt.	1.15	4.70	5.40	68	3.57
Phosphate fertilizer (20%)	Cwt.	3.85	1.65	6.35	9	.57
Sulphate of potash	Cwt.	1.00	4.10	4.10	33	1.35
Arsenate of lead	Lb.	11.4	.33	3.76	92	3.46
Paris green	Lb.	1.1	.63	.69	34	.23
Toxaphene	Lb.	12.8	.18	2.30	16	.37
Spraying, contract	---	---	---	4.00	7	.28
Setter rental	---	---	---	2.00	6	.12
Total preharvest						43.27
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	[2]	37.27
Sticks, depreciation	---	---	---	---	[2]	2.65
Wood, delivered	---	---	---	7.10	11	.78
Wood, at mill	---	---	---	1.90	22	.42
Sawdust, delivered	Bbl.	16.5	.55	9.08	37	3.36
Sawdust, at mill	Bbl.	16.5	.23	3.80	63	2.39
Stripping, contract	Cwt.	12.50	2.25	28.12	2	.56
Hauling, contract	Cwt.	12.50	.22	2.75	34	.94
Total harvest						48.37
Total						91.64

[1] Estimated.

[2] Repair and depreciation on tobacco barns and strip rooms in this area is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting fire-cured tobacco, type 22, area VIII-C1, Pennyroyal, Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	56.45	5.63	2.38	0.47	---
Preharvest					
Plant bed 1/	27.31	2.73	1.15	.23	---
Cover crop	1.39	.10	1.05	---	---
Land preparation	17.42	9.45	6.52	---	---
Transplanting	29.77	.66	2.01	---	0.45
Growing	117.33	21.33	.90	---	---
Cleaning up	3.21	1.38	.22	---	---
Total preharvest	196.43	35.65	11.85	.23	.45
Harvest					
Harvesting	45.54	4.82	2.74	---	---
Curing	66.52	4.78	1.31	8.64	---
Stripping	80.69	.18	.05	.02	---
Stripping, contract	1.69	---	---	---	---
Hauling and marketing	11.14	.05	---	9.24	11.75
Hauling, contract	.99	---	---	4.82	---
Total harvest	206.57	9.83	4.10	22.72	11.75
Total	403.00	45.48	15.95	22.95	12.20

1/ About 48.4 square yards of plant bed required for one acre of tobacco.

FIRE-CURED TOBACCO, TYPE 22: RESOURCES USED IN PRODUCTION, AREA VIII-CI, TENNESSEE, 1949

The data presented here are based on a survey made in 1950 of 42 farms producing fire-cured tobacco in northwestern Tennessee. These farms are located in type-of-farming area VIII-Cl, a tobacco and general farming area in the Pennyroyal section of Tennessee, also referred to as the northern Highland Rim.

The farms surveyed averaged 204 acres. Acreage of fire-cured tobacco per farm in 1949 ranged from 1.1 to 22.4 acres. The average acreage per farm was 7.0, with 2 to 8 acres being the most common. The average yield of fire-cured was 1,625 pounds an acre. Burley tobacco and One Sucker were also produced on some of these farms.

Draft animals provided an important part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.10	4.10	4.51	19	0.86
Wood	---	---	---	1.18	20	.24
Steaming, contract	---	---	---	10.55	16	1.69
Fertilizer (3-9-6)	Cwt.	1.00	2.30	2.30	97	2.23
Nitrate fertilizer	Cwt.	.15	4.80	.72	27	.19
Cottonseed meal	Cwt.	.25	3.35	.84	1	.01
Seed	Ounce	.55	1.40	.77	100	.77
Cotton cloth	100 sq. yd.	1.0	10.10	10.10	100	[1]3.16
Fermate	Lb.	3.8	.27	1.03	15	.15
Arsenate of lead	Lb.	1.6	.29	.46	5	.02
Lime	Lb.	3.0	.04	.12	8	.01
Total						9.33

[1] Annual cost allocated on the basis of an average life of 3.2 years.

Materials used and contract work hired in producing and harvesting fire-cured tobacco, type 22, area VIII-C1, Pennyroyal, Tennessee, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.52	9.33	4.85	100	4.85
Cover crop seed						
Crimson clover	Lb.	24	.31	7.44	48	3.57
Rye	Bu.	1.0	2.00	2.00	7	.14
Manure — —	Ton	4	1/2.00	8.00	68	5.44
Fertilizer (3-9-6)	Cwt.	8.30	2.30	19.09	78	14.89
Mixed fertilizer	Cwt.	6.60	2.85	18.81	33	6.21
Nitrate fertilizer	Cwt.	1.55	3.80	5.89	79	4.65
Phosphate fertilizer	Cwt.	4.95	1.40	6.93	9	.62
Potash fertilizer	Cwt.	3.65	3.10	11.32	6	.68
Arsenate of lead	Lb.	10.2	.30	3.06	99	3.03
Paris green	Lb.	1.5	.75	1.12	69	.77
Total preharvest						44.85
Harvest						
Barns & strip rooms, repair & depreciation	---	---	---	---	---	2/28.71
Sticks, depreciation	---	---	---	---	---	3/ 2.18
Sawdust & shavings	Bbl.	14.8	.75	11.10	100	11.10
Wood	Cord	1.6	10.00	16.00	100	16.00
Hauling, contract	Cwt.	16.25	.24	3.90	35	1.36
Total harvest						59.35
Total						104.20

1/ Estimated.

2/ About 10 percent of the value of the tobacco barns and strip rooms was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting fire-cured tobacco, type 22, area VIII-C1, Pennyroyal, Tennessee, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	38.23	13.97	0.45	---	---
Preharvest					
Plant bed 1/	19.80	7.24	.23	---	---
Cover crop	1.70	.10	1.40	---	---
Land preparation	18.00	9.30	7.60	---	---
Transplanting	28.70	3.80	.50	---	---
Growing	109.40	25.50	.80	---	---
Cleaning up	2.80	4.10	.10	---	---
Total preharvest	180.40	50.04	10.63	---	---
Harvest					
Harvesting	60.50	14.40	4.00	---	---
Curing	26.20	---	---	---	---
Stripping	121.80	---	---	---	---
Hauling, contract	.64	---	---	2.45	---
Marketing	8.80	---	---	4.42	4.60
Total harvest	217.94	14.40	4.00	6.87	4.60
Total	398.34	64.44	14.63	6.87	4.60

1/ About 51.8 square yards of plant bed required for 1 acre of tobacco.

FIRE-CURED TOBACCO, TYPE 23: RESOURCES USED IN PRODUCTION, AREA VIII-C1 KENTUCKY, 1951

The data presented here are based on a survey in 1952 of 30 farms producing fire-cured tobacco in southwestern Kentucky, west of the Tennessee River. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area in the Purchase section of Kentucky.

The farms surveyed averaged 105 total acres. Acreage of fire-cured tobacco per farm in 1951 ranged from 1.0 to 5.3 acres. The average acreage per farm was 3.0 with 2 to 4 acres being the most common. The average yield of fire-cured was 1,210 pounds per acre. One Sucker tobacco and Burley were also grown on some of these farms.

Draft animals provided a considerable part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.35	4.10	5.54	10	0.55
Wood	---	---	---	8.60	19	1.63
Mixed fertilizer (4-12-8)	Cwt.	.80	2.30	1.84	97	1.78
Ammonium nitrate	Cwt.	.15	5.00	.75	31	.23
Manure	Cwt.	30.75	1/ .10	3.08	4	.12
Seed	Ounce	.7	1.80	1.26	100	1.26
Planks	Bd.ft.	168	.06	10.08	11	2/.32
Canvas	100 sq.yd.	1.0	31.55	31.55	100	3/3.42
Bluestone	Lb.	3.3	.20	.66	53	.35
Lime	Lb.	5.3	.03	.16	53	.08
Fermate (15%)	Lb.	3.0	.22	.66	20	.13
Total						9.87

1/ Estimated.
2/ Annual cost allocated on the basis of an average life of 3.5 years.
3/ Annual cost allocated on the basis of an average life of 3.2 years.

Materials used and contract work hired in producing and harvesting fire-cured tobacco, type 23, area VIII-C1, Purchase, Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.36	9.87	3.55	100	3.55
Cover crop seed						
Vetch	Lb.	29	.23	6.67	21	1.40
Crimson clover & vetch						
Crimson clover	Lb.	13	.26	3.38	27	.91
Vetch	Lb.	17	.23	3.91	27	1.06
Rye	Bu.	1.5	2.75	4.12	7	.29
Manure	Ton	7	[1]2.00	14.00	87	12.18
Mixed fertilizer (4-12-8)	Cwt.	6.75	2.35	15.86	100	15.86
Ammonium nitrate	Cwt.	1.25	4.30	5.38	59	3.17
Phosphate fertilizer (47%)	Cwt.	2.50	3.00	7.50	11	.82
Sulphate of potash	Cwt.	1.30	3.60	4.68	22	1.03
Arsenate of lead	Lb.	8.2	.33	2.71	88	2.38
Paris green	Lb.	1.4	.60	.84	58	.49
Toxaphene	Gal.	.4	5.15	2.06	23	.47
Tillage, contract	---	---	---	5.90	8	.47
Total preharvest						44.08
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	[2]	27.64
Sticks, depreciation	---	---	---	---	[2]	3.17
Barn rental	---	---	---	10.00	6	.60
Wood, delivered	---	---	---	6.45	15	.97
Wood, at mill	---	---	---	1.25	8	.10
Sawdust, delivered	Bbl.	14.5	.54	7.83	76	5.95
Sawdust, at mill	Bbl.	14.5	.20	2.90	24	.70
Hauling, contract	Cwt.	12.10	.21	2.54	35	.89
Total harvest						40.02
Total						84.10

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[1] Estimated.

[2] Repair and depreciation on tobacco barns and strip rooms is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting fire-cured tobacco, type 23, area VIII-C1, Purchase, Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per -					
100 square yards	52.64	8.86	6.21	0.57	---
Preharvest					
Plant bed 1/	18.83	3.17	2.22	.20	---
Cover crop	1.57	.34	1.05	---	---
Land preparations	15.30	7.05	7.20	---	---
Transplanting	23.37	---	.29	.09	---
Growing	91.97	18.49	1.12	---	---
Cleaning up	2.41	.92	.45	---	---
Total preharvest	153.45	29.97	12.33	.29	---
Harvest					
Harvesting	36.32	2.00	2.70	.04	---
Curing	44.62	2.09	.85	4.39	---
Stripping	67.17	.18	.07	---	---
Hauling and marketing	10.64	---	---	5.43	7.53
Hauling, contract	.85	---	---	2.97	---
Total harvest	159.60	4.27	3.62	12.83	7.53
Total	313.05	34.24	15.95	13.12	7.53

1/ About 35.8 square yards of plant bed required for one acre of tobacco.

BURLEY TOBACCO, TYPE 31: RESOURCES USED IN PRODUCTION, AREA V-C2, 1951

The data presented here are based on a survey in 1952 of 32 farms producing Burley tobacco in western Kentucky. These farms are located in type-of-farming area V-C2, on the fringe of the Corn Belt where production of hogs and soft winter wheat are important enterprises. These farms are in the valleys of Wabash and Lower Ohio Rivers.

The farms surveyed averaged 212 total acres. Acreage of Burley tobacco per farm in 1951 ranged from 0.9 to 14.8 acres. The average acreage per farm was 3.3 with 1 to 3 acres being the most common. The average yield of Burley was 1,190 pounds per acre. Green River tobacco was also produced on some of these farms.

Draft animals provided an important part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.50	4.00	6.00	24	1.44
Wood	---	---	---	5.85	18	1.05
Methyl bromide	Lb.	9.0	1.00	9.00	4	.36
Coal	Bu.	14.4	.21	3.02	16	.48
Steaming, contract	---	---	---	11.80	16	1.89
Mixed fertilizer (6-8-6)	Cwt.	.90	2.60	2.34	94	2.20
Nitrate of soda	Cwt.	.15	4.60	.69	21	.14
Liquid fertilizer (7-14-7)	Gal.	.42	4.60	1.93	9	.17
Seed	Ounce	.7	1.50	1.05	100	1.05
Planks	Bd.ft.	105	.05	5.25	6	1/ .08
Canvas	100 sq.yd.	1.0	10.80	10.80	100	2/4.91
Bluestone	Lb.	2.9	.27	.78	48	.37
Lime	Lb.	4.1	.03	.12	48	.06
Total						14.20

1/ Annual cost allocated on the basis of an average life of 3.7 years.
2/ Annual cost allocated on the basis of an average life of 2.2 years.

Materials used and contract work hired in producing and harvesting Burley tobacco, type 31, area V-C2, western Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.68	14.20	9.66	95	9.18
Plants bought	1,000	7.0	1.00	7.00	5	.35
Cover crop seed						
Vetch	Lb.	30	.23	6.90	31	2.14
Vetch and wheat						
Vetch	Lb.	22	.23	5.06	24	1.21
Wheat	Bu.	1.0	2.50	2.50	24	.60
Rye	Bu.	1.8	2.50	4.50	39	1.76
Manure	Ton	10	1/ 2.00	20.00	88	17.60
Mixed fertilizer (6-8-6)	Cwt.	6.75	2.65	17.89	98	17.53
Ammonium nitrate	Cwt.	1.35	4.70	6.34	18	1.14
Phosphate fertilizer (20%)	Cwt.	5.60	1.55	8.68	13	1.13
Arsenate of lead	Lb.	4.7	.35	1.64	45	.74
Paris green	Lb.	1.6	.62	.99	61	.60
Toxaphene	Gal.	.37	5.60	2.07	56	1.16
Setter rental	---	---	---	2.00	6	.12
Total preharvest						55.26
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	2/	57.30
Sticks, depreciation	---	---	---	---	2/	4.86
Barn rental	---	---	---	10.00	2	.20
Coke	Bu.	11.2	.60	6.72	36	2.42
Stripping, contract	Cwt.	11.90	6.00	71.40	10	7.14
Hauling, contract	Cwt.	11.90	.65	7.74	17	1.32
Total harvest						73.24
Total						128.50

1/ Estimated.

2/ Repair and depreciation on tobacco barns and strip rooms is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting Burley tobacco, type 31, area V-C2, western Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per -					
100 square yards	46.06	4.44	1.42	3.69	---
Acre of tobacco 1/	31.22	3.01	.96	2.50	---
Preharvest					
Plant bed 2/	29.79	2.87	.92	2.38	---
Cover crop	2.64	1.11	1.74	---	---
Land preparation	19.66	8.02	10.36	.20	---
Transplanting	38.25	2.13	4.22	1.93	---
Growing	68.73	14.63	1.15	---	---
Cleaning up	3.20	1.93	.80	---	---
Total preharvest	162.27	30.69	19.19	4.51	---
Harvest					
Harvesting	67.60	7.57	5.48	---	---
Curing	5.12	---	---	.46	---
Stripping	97.09	---	.12	1.95	---
Stripping, contract	10.08	---	---	---	---
Hauling and marketing	18.11	---	---	12.15	16.88
Hauling, contract	1.03	---	---	2.90	---
Total harvest	199.03	7.57	5.60	17.46	16.88
Total	361.30	38.26	24.79	21.97	16.88

1/ About 67.8 square yards of plant bed required for one acre of tobacco.

2/ Ninety-five percent of acreage planted with farm-raised plants.

BURLEY TOBACCO, TYPE 31: RESOURCES USED IN PRODUCTION, AREA VI-H1, 1951

The data presented here are based on a survey in 1952 of 60 farms producing Burley tobacco in south central Kentucky. These farms are located in type-of-farming area VI-H1, in the "knobs" and coal fields area of Kentucky. The production of livestock and tobacco are the most important farm enterprises in this area.

The farms surveyed averaged 106 total acres. Tobacco acreage per farm in 1951 ranged from 0.9 to 17.0 acres. The average acreage per farm was 3.2 with 1 to 3 acres being the most common. The average yield of tobacco was 1,578 pounds per acre. Burley tobacco was the only type of tobacco produced on these farms.

Draft animals provided an important part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.40	4.40	6.16	33	2.03
Wood	---	---	---	9.05	9	.81
Methyl bromide	Lb.	9.33	.85	7.93	1	.08
Mixed fertilizer (6-8-6)	Cwt.	.70	2.55	1.78	96	1.71
Nitrate of soda	Cwt.	.31	4.25	1.32	29	.38
Ammonium nitrate	Cwt.	.18	4.75	.86	31	.27
Phosphate fertilizer(20%)	Cwt.	1.00	1.65	1.65	7	.12
Manure	Cwt.	2.85	[1] .10	.28	25	.07
Seed	Ounce	.4	1.45	.58	100	.58
Planks	Bd. ft.	138	.05	6.90	41	[2] .79
Canvas	100 sq. yd.	1.0	10.65	10.65	100	[3] 4.45
Bluestone	Lb.	3.2	.19	.61	45	.27
Lime	Lb.	4.8	.02	.10	45	.05
Fermate (15%)	Lb.	5.0	.22	1.10	22	.24
Total						11.85

[1] Estimated.

[2] Annual cost allocated on the basis of an average life of 3.6 years.

[3] Annual cost allocated on the basis of an average life of 2.4 years.

Materials used and contract work hired in producing and harvesting Burley tobacco, type 31, area VI-H1, south central Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.90	11.85	10.66	100	10.66
Cover crop seed						
Vetch	Lb.	31	.22	6.82	26	1.77
Vetch and wheat						
Vetch	Lb.	26	.22	5.72	38	2.17
Wheat	Bu.	1.5	2.75	4.12	38	1.56
Barley	Bu.	2.2	1.75	3.85	21	.81
Manure	Ton	14	1/ 2.00	28.00	99	27.72
Mixed fertilizer (6-8-6)	Cwt.	13.25	2.55	33.79	100	33.79
Ammonium nitrate	Cwt.	2.00	4.55	9.10	45	4.10
Phosphate fertilizer (20%)	Cwt.	7.60	1.70	12.92	28	3.62
Sulphate of potash	Cwt.	2.10	4.00	8.40	17	1.43
Arsenate of lead	Lb.	8.9	.35	3.12	52	1.62
Paris green	Lb.	2.2	.56	1.23	32	.39
D.D.T. (5%)	Lb.	7.7	.13	1.00	22	.22
Airplane spraying, c.	---	---	---	4.00	19	.76
Tillage work, contract	---	---	---	8.25	5	.41
Setting, contract	---	---	---	14.95	3	.45
Setter rental	---	---	---	2.00	13	.26
Total preharvest						91.74
Harvest						
Barns, repair and depr.	---	---	---	---	2/	69.84
Sticks, depreciation	---	---	---	---	2/	4.77
Coke	Ton	.7	22.20	15.54	25	3.89
Stripping, contract	Cwt.	15.78	5.00	78.90	1	.79
Hauling, contract	Cwt.	15.78	.59	9.31	53	4.93
Total harvest						84.22
Total						175.96

1/ Estimated.

2/ Repair and depreciation on tobacco barns and strip rooms is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting Burley tobacco, type 31, area VI-H1, south central Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	46.97	9.49	2.17	---	---
Preharvest					
Plant bed 1/	42.19	8.52	1.95	---	---
Cover crop	2.89	2.40	1.18	---	---
Land preparation	35.23	19.93	10.68	---	---
Transplanting	40.15	3.85	2.08	---	---
Growing	77.84	15.64	.99	---	---
Cleaning up	3.57	.64	.43	---	---
Total preharvest	201.87	50.98	17.31	---	---
Harvest					
Harvesting	83.48	7.90	4.19	0.18	---
Curing	4.43	---	---	---	---
Stripping	137.71	.01	.04	---	---
Stripping, contract	1.41	---	---	---	---
Hauling and marketing	12.63	.02	---	13.28	24.49
Hauling, contract	3.11	---	---	16.08	---
Total harvest	242.77	7.93	4.23	29.54	24.49
Total	444.64	58.91	21.54	29.54	24.49

1/ About 89.8 square yards of plant bed required for one acre of tobacco.

BURLEY TOBACCO, TYPE 31: RESOURCES USED IN PRODUCTION AREA VI-J1, 1949

The data presented here are based on a survey made in 1950 of 67 farms producing Burley tobacco in middle Tennessee. These farms are located in type-of-farming area VI-J1, a livestock and dairy area in the Central Basin of Tennessee.

The farms surveyed averaged 180 acres. Tobacco acreage per farm in 1949 ranged from 1.0 to 18.9 acres. The average acreage of tobacco per farm was 3.7, with 1 to 4 acres being the most common. The average yield of tobacco was 1,304 pounds an acre.

Draft animals provided the major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.00	4.60	4.60	80	3.68
Fertilizer (3-9-6)	Cwt.	.70	2.35	1.64	76	1.25
Nitrate fertilizer	Cwt.	.30	3.80	1.14	22	.25
Cottonseed meal	Cwt.	.55	3.60	1.98	8	.16
Seed	Ounce	.5	1.60	.80	100	.80
Planks	Bd.ft.	110	.05	5.50	12	1/ .22
Cotton cloth	100 sq. yd.	1.0	10.25	10.25	100	2/ 4.65
Bluestone	Lb.	2.4	.19	.46	24	.11
Lime	Lb.	4.2	.02	.08	24	.02
Fermate	Lb.	2.1	.54	1.13	21	.24
Arsenate of lead	Lb.	1.6	.31	.50	22	.11
Sulphur	Lb.	1.6	.10	.16	14	.02
Cryolite	Lb.	1.0	.20	.20	10	.02
Total						11.53

1/ Annual cost allocated on the basis of an average life of 3 years.

2/ Annual cost allocated on the basis of an average life of 2.2 years.

Materials used and contract work hired in producing and harvesting Burley tobacco, type 31, area VI-J1, middle Tennessee, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.91	11.53	10.49	100	10.49
Cover crop seed						
Crimson clover	Lb.	21	.23	4.83	71	3.43
Rye	Bu.	1.9	1.80	3.42	76	2.60
Manure	Ton	17	1/2.00	34.00	75	25.50
Fertilizer (3-9-6)	Cwt.	7.60	2.20	16.72	73	12.21
Nitrate fertilizer	Cwt.	2.10	3.95	8.30	34	2.82
Potash fertilizer	Cwt.	1.40	4.45	6.23	8	.50
Arsenate of lead	Lb.	15.6	.30	4.68	77	3.60
Paris green	Lb.	1.5	.57	.86	37	.32
Lime	Lb.	42.4	.01	.42	24	.10
Sulphur	Lb.	8.7	.08	.70	5	.04
Cryolite	Lb.	23.6	.15	3.54	5	.18
Total preharvest						61.79
Harvest						
Barns, repair & depr.	---	---	---	---	---	2/45.70
Sticks, depreciation	---	---	---	---	---	3/ 4.66
Coke	Ton	.4	17.55	7.02	15	1.05
Hauling, contract	Cwt.	13.04	.38	4.96	43	2.13
Total harvest						53.54
Total						115.33

1/ Estimated.

2/ About 10 percent of the value of the tobacco barns was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting Burley tobacco, type 31, area VI-J1, middle Tennessee, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	32.80	10.90	1.70	---	---
Preharvest					
Plant bed 1/	29.72	9.88	1.54	---	---
Cover crop	5.30	4.80	2.20	---	---
Land preparation	36.50	35.00	8.30	---	---
Transplanting	45.80	7.50	.90	---	---
Growing	100.70	22.20	.10	---	---
Cleaning up	4.50	4.90	---	---	---
Total preharvest	222.52	84.28	13.04	---	---
Harvest					
Harvesting	80.50	33.00	2.60	---	---
Curing	1.30	---	---	---	---
Stripping	137.20	---	---	---	---
Hauling, contract	1.53	---	---	3.27	---
Marketing	11.90	.50	.50	3.40	8.40
Total harvest	232.43	33.50	3.10	6.67	8.40
Total	454.95	117.78	16.14	6.67	8.40

1/ About 90.6 square yards of plant bed required for 1 acre of tobacco.

BURLEY TOBACCO, TYPE 31: RESOURCES USED IN PRODUCTION, AREA VI-J2, 1949

The data presented here are based on a survey made in 1950 of 43 farms producing Burley tobacco in eastern Tennessee and southwestern Virginia. These farms are located in type-of-farming area VI-J2, a livestock and dairy area in the Great Appalachian Valley.

The farms surveyed averaged 221 acres. Tobacco acreage per farm in 1949 ranged from 0.4 to 18.4 acres. The average acreage per farm was 2.8, with 1 to 3 acres being the most common. The average yield of tobacco was 1,666 pounds an acre.

Draft animals provided a major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.50	5.00	7.50	2	0.15
Wood	Cord	3.8	1.00	3.80	9	.34
Straw	Ton	.6	5.00	3.00	26	.78
Sawdust	---	---	---	1.35	21	.28
Fertilizer (3-9-6)	Cwt.	1.00	2.30	2.30	49	1.13
Fertilizer (4-12-8)	Cwt.	.95	3.60	3.42	51	1.74
Nitrate fertilizer	Cwt.	.20	4.05	.81	40	.32
Manure	Cwt.	4.40	1/ .10	.44	13	.06
Seed	Oz.	.5	1.50	.75	100	.75
Planks	---	2/	---	7.25	36	3/ .45
Cotton cloth	100 sq.yd.	1.0	10.25	10.25	100	4/3.66
Fermate	Lb.	5.1	.80	4.08	44	1.80
Bluestone	Lb.	1.9	.19	.36	19	.07
Lime	Lb.	17.6	.01	.18	17	.03
Total						11.56

1/ Estimated.
2/ Board feet not available.
3/ Annual cost allocated on the basis of an average life of 5.8 years.
4/ Annual cost allocated on the basis of an average life of 2.8 years.

Man labor and power used per acre in producing and harvesting Burley tobacco, type 31, area VI-J2, eastern Tennessee and southwestern Virginia, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	72.60	21.40	4.00	---	---
Preharvest					
Plant bed 1/	54.74	16.14	3.02	---	---
Cover crop	1.96	.66	.94	---	---
Land preparation	45.38	35.68	10.52	---	---
Transplanting	63.16	---	.60	---	---
Growing	128.00	18.24	.54	---	---
Cleaning up	5.46	6.23	.30	---	---
Total preharvest	298.70	76.95	15.92	---	---
Harvest					
Harvesting	89.26	24.37	11.98	---	---
Stripping	148.19	---	---	---	---
Hauling, contract	1.07	---	---	5.74	---
Marketing	13.32	---	---	8.74	10.58
Total harvest	251.84	24.37	11.98	14.48	10.58
Total	550.54	101.32	27.90	14.48	10.58

1/ About 75.4 square yards of plant bed required for one acre of tobacco.

Materials used and contract work hired in producing and harvesting Burley tobacco, type 31, area VI-J2, eastern Tennessee and southwestern Virginia, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.75	11.56	8.67	100	8.67
Cover crop seed						
Crimson clover	Lb.	19	.25	4.75	12	.57
Clover and barley						
Crimson clover	Lb.	17	.25	4.25	8	.34
Barley	Bu.	1.7	2.49	4.23	8	.34
Barley	Bu.	1.7	2.49	4.23	4	.17
Manure	Ton	12	[1] 2.00	24.00	87	20.88
Fertilizer (3-9-6)	Cwt.	10.30	2.20	22.66	100	22.66
Nitrate fertilizer	Cwt.	3.15	3.25	10.24	45	4.61
Potash fertilizer	Cwt.	1.75	4.60	8.05	2	.16
Arsenate of lead	Lb.	8.0	.35	2.80	38	1.06
Paris green	Lb.	.8	.95	.76	23	.17
Cryolite	Lb.	17.4	.21	3.65	7	.26
Land plaster	Lb.	61.5	.01	.62	13	.08
Total preharvest						59.97
Harvest						
Barns, repair and depreciation	---	---	---	---	---	[2] 69.55
Sticks, depreciation	---	---	---	---	---	[3] 5.74
Hauling, contract	Cwt.	16.60	.21	3.49	41	1.43
Basket rental	No.	7	.50	3.50	44	1.54
Total harvest						78.26
Total						138.23

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[1] Estimated.

[2] About 10 percent of the value of the tobacco barns was charged to repair and depreciation.

[3] Tobacco sticks depreciate about 12 percent a year.

BURLEY TOBACCO, TYPE 31: RESOURCES USED IN PRODUCTION, AREA VIII-C1, KENTUCKY, 1951

The data presented here are based on a survey in 1952 of 47 farms producing Burley tobacco in southwestern Kentucky. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area in the Pennyroyal section of Kentucky.

The farms surveyed averaged 181 total acres. Acreage of Burley tobacco per farm in 1951 ranged from 0.9 to 12.0 acres. The average acreage per farm was 2.5 with 1 to 3 acres being the most common. The average yield of Burley was 1,430 pounds per acre. One Sucker tobacco and fire-cured were also grown on some of these farms.

Draft animals provided a considerable part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.65	4.45	7.34	35	2.57
Wood, delivered	---	---	---	12.60	8	1.01
Wood at mill	---	---	---	2.45	6	.15
Burner rental	---	---	---	1.00	10	.10
Coal	Bu.	9.2	.32	2.94	7	.21
Steaming, contract	---	---	---	9.80	7	.69
Mixed fertilizer (6-8-6)	Cwt.	.75	2.55	1.91	98	1.87
Ammonium nitrate	Cwt.	.10	4.60	.46	56	.26
Cottonseed meal	Cwt.	.42	5.00	2.10	10	.21
Seed	Ounce	.5	1.55	.78	100	.78
Planks	Bd.ft.	125	.06	7.50	17	1/ .30
Canvas	100 sq.yd.	1.0	11.08	11.08	100	2/3.58
Bluestone	Lb.	3.9	.18	.70	41	.29
Lime	Lb.	6.7	.02	.13	41	.05
Fermate (15%)	Lb.	5.0	.20	1.00	23	.23
Total						12.30

1/ Annual cost allocated on the basis of an average life of 4.3 years.
2/ Annual cost allocated on the basis of an average life of 3.1 years.

Materials used and contract work hired in producing and harvesting Burley tobacco, type 31, area VIII-C1, Pennyroyal, Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	.90	12.30	11.07	100	11.07
Cover crop seed						
Crimson clover	Lb.	20	.26	5.20	15	.78
Vetch	Lb.	30	.23	6.90	12	.83
Vetch and rye						
Vetch	Lb.	20	.23	4.60	25	1.15
Rye	Bu.	1.2	2.75	3.30	25	.82
Manure	Ton	10	1/ 2.00	20.00	86	17.20
Mixed fertilizer (6-8-6)	Cwt.	11.20	2.45	27.44	100	27.44
Ammonium nitrate	Cwt.	1.30	4.65	6.04	46	2.78
Phosphate fertilizer (20%)	Cwt.	4.35	1.65	7.18	14	1.01
Sulphate of potash	Cwt.	1.70	3.60	6.12	15	.92
Arsenate of lead	Lb.	15.2	.31	4.71	87	4.10
Paris green	Lb.	2.3	.64	1.47	36	.53
Spraying, contract	---	---	---	4.80	29	1.39
Tillage work, contract	---	---	---	7.58	5	.38
Setter rental	---	---	---	2.00	14	.28
Total preharvest						70.68
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	2/	59.84
Sticks, depreciation	---	---	---	---	2/	4.85
Coke	Ton	.7	23.95	16.76	23	3.85
Bottled gas	---	---	---	41.70	2	.83
Stripping, contract	Cwt.	14.30	4.40	62.92	31	19.51
Hauling, contract	Cwt.	14.30	.59	8.44	16	1.35
Total harvest						90.23
Total						160.91

1/ Estimated.

2/ Repair and depreciation on tobacco barns and strip rooms is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting
Burley tobacco, type 31, area VIII-C1, Pennyroyal,
Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	49.32	7.20	5.30	0.29	---
Preharvest					
Plant bed 1/	44.50	6.50	4.78	.27	---
Cover crop	1.93	.63	1.27	---	---
Land preparation	20.02	7.52	10.03	---	---
Transplanting	36.19	1.45	4.69	---	---
Growing	78.56	16.52	1.21	---	---
Cleaning up	2.56	1.22	.33	---	---
Total preharvest	183.76	33.84	22.31	.27	---
Harvest					
Harvesting	70.59	4.94	5.65	---	---
Curing	6.31	---	.04	1.38	---
Stripping	96.43	.07	.09	4.79	2.11
Stripping, contract	40.95	---	---	---	---
Hauling and marketing	14.59	---	---	10.75	20.11
Hauling, contract	1.15	---	---	2.96	---
Total harvest	230.02	5.01	5.78	19.88	22.22
Total	413.78	38.85	28.09	20.15	22.22

1/ About 90.2 square yards of plant bed required for one acre of tobacco.

BURLEY TOBACCO, TYPE 31: RESOURCES USED IN PRODUCTION, AREA VIII-C1, KENTUCKY, 1951

The data presented here are based on a survey in 1952 of 15 farms producing Burley tobacco in southwestern Kentucky, west of the Tennessee River. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area in the Purchase section of Kentucky.

The farms surveyed averaged 186 total acres. Acreage of Burley tobacco per farm in 1951 ranged from 0.6 to 6.5 acres. The average acreage per farm was 1.9 with 1 to 2 acres being the most common. The average yield of Burley was 1,149 pounds per acre. Fire-cured tobacco and One Sucker were also produced on some of these farms.

Draft animals provided a considerable part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	0.80	4.50	3.60	27	0.97
Wood	---	---	---	9.00	23	2.07
Mixed fertilizer (4-12-8)	Cwt.	.60	2.40	1.44	100	1.44
Ammonium nitrate	Cwt.	.20	4.25	.85	12	.10
Seed	Ounce	.6	1.50	.90	100	.90
Planks	Bd.ft.	97	.07	6.79	34	1/ 1.16
Canvas	100 sq.yd.	1.0	10.47	10.47	100	2/ 3.39
Bluestone	Lb.	4.4	.21	.92	46	.42
Lime	Lb.	6.2	.02	.12	46	.06
Fermate (15%)	Lb.	7.5	.20	1.50	36	.54
Water	---	---	---	.38	23	.09
Total						11.14

1/ Annual cost allocated on the basis of an average life of 2.0 years.
2/ Annual cost allocated on the basis of an average life of 3.1 years.

Materials used and contract work hired in producing and harvesting Burley tobacco, type 31, area VIII-Cl, Purchase, Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.79	11.14	8.80	100	8.80
Cover crop seed						
Crimson clover	Lb.	19	.26	4.94	22	1.09
Vetch	Lb.	26	.23	5.98	30	1.79
Vetch and wheat						
Vetch	Lb.	14	.23	3.22	9	.29
Wheat	Bu.	1.1	2.75	3.02	9	.27
Manure	Ton	10	1/ 2.00	20.00	65	13.00
Mixed fertilizer (4-12-8)	Cwt.	6.50	2.35	15.28	95	14.52
Ammonium nitrate	Cwt.	1.10	4.05	4.46	48	2.14
Phosphate fertilizer (47%)	Cwt.	2.15	3.50	7.52	47	3.53
Sulphate of potash	Cwt.	1.20	3.85	4.62	38	1.76
Arsenate of lead	Lb.	13.3	.31	4.12	37	1.52
Paris green	Lb.	2.8	.51	1.43	49	.70
Toxaphene	Gal.	.8	4.50	3.60	57	2.05
Spraying, contract	---	---	---	6.25	6	.38
Tillage, contract	---	---	---	3.75	13	.49
Setter rental	---	---	---	2.00	6	.12
Duster rental	---	---	---	2.00	23	.46
Water	---	---	---	.54	23	.12
Total preharvest						53.03
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	2/	84.66
Sticks, depreciation	---	---	---	---	2/	6.63
Coke	Bu.	6.5	.44	2.86	31	.89
Stripping, contract	Cwt.	11.49	7.00	80.43	7	5.63
Hauling, contract	Cwt.	11.49	.44	5.06	20	1.01
Total harvest						98.82
Total						151.85

1/ Estimated. 2/ Repair and depreciation on tobacco barns and strip rooms is about 8 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting Burley tobacco, type 31, area VIII-C1, Purchase, Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per -					
100 square yards	37.90	1.87	2.00	7.15	---
Preharvest					
Plant bed 1/	30.09	1.49	1.59	5.68	---
Cover crop	2.37	.46	1.92	---	---
Land preparation	18.26	8.18	9.15	---	---
Transplanting	35.34	3.70	.65	4.53	---
Growing	88.67	12.17	1.01	---	---
Cleaning up	1.40	.86	.18	---	---
Total preharvest	176.13	26.86	14.50	10.21	---
Harvest					
Harvesting	66.12	4.46	4.43	---	---
Curing	3.78	---	---	.54	---
Stripping	125.62	1.44	.27	1.44	---
Stripping, contract	9.56	---	---	---	---
Hauling and marketing	15.72	---	---	18.04	23.64
Hauling, contract	.52	---	---	4.92	---
Total harvest	221.32	5.90	4.70	24.94	23.64
Total	397.45	32.76	19.20	35.15	23.64

1/ About 79.4 square yards of plant bed required for one acre of tobacco.

BURLEY TOBACCO, TYPE 31: RESOURCES USED IN PRODUCTION, AREA VIII-C1, TENNESSEE, 1949

The data presented here are based on a survey made in 1950 of 30 farms producing Burley tobacco in northwestern Tennessee. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area in the Pennyroyal section of Tennessee, also referred to as the northern Highland Rim.

The farms surveyed averaged 301 acres. Acreage of Burley tobacco per farm in 1949 ranged from 0.6 to 28 acres. The average acreage per farm was 2.8, with 1 to 2 acres being the most common. The average yield of Burley was 1,253 pounds an acre. Fire-cured and One Sucker tobacco also were produced on some of these farms.

Draft animals provided a major part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	0.95	4.60	4.37	22	0.96
Wood	Cord	1.0	1.00	1.00	24	.24
Steaming, contract	---	---	---	12.35	28	3.46
Fertilizer (3-9-6) 1/	Cwt.	.95	2.35	2.23	100	2.23
Nitrate fertilizer	Cwt.	.15	3.90	.58	62	.36
Seed	Oz.	.6	1.45	.87	100	.87
Planks 2/	---	---	---	5.85	21	3/ .19
Cotton cloth	100 sq.yd.	1.0	10.35	10.35	100	4/3.04
Fermate	Lb.	5.7	.30	1.71	30	.51
Arsenate of lead	Lb.	5.6	.20	1.12	17	.19
Paris green	Lb.	1.5	.50	.75	5	.04
Total						12.09

1/ Some 4-12-8 and 6-8-6 also used in this area.

2/ Board feet per 100 square yards unavailable.

3/ Annual cost is allocated on the basis of an average life of 6.5 years.

4/ Annual cost is allocated on the basis of an average life of 3.4 years.

Materials used and contract work hired in producing and harvesting Burley tobacco, type 31, area VIII-C1, Pennyroyal, Tennessee, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq.yd.	0.70	12.09	8.46	100	8.46
Cover crop seed						
Crimson clover	Lb.	19	.24	4.56	27	1.23
Rye	Bu.	2.5	1.90	4.75	4	.19
Manure	Ton	9	1/2.00	18.00	85	15.30
Fertilizer (3-9-6)	Cwt.	8.60	2.05	17.63	80	14.10
Fertilizer (4-12-8)	Cwt.	8.10	3.00	24.30	20	4.86
Nitrate fertilizer	Cwt.	1.50	3.95	5.92	47	2.78
Phosphate fertilizer	Cwt.	11.40	1.50	17.10	2	.34
Potash fertilizer	Cwt.	1.00	3.00	3.00	4	.12
Arsenate of lead	Lb.	14.3	.30	4.29	100	4.29
Paris green	Lb.	1.1	.59	.65	87	.57
Total preharvest						52.24
Harvest						
Barns and strip rooms, repair & depr.	---	---	---	---	---	2/50.78
Sticks, depreciation	---	---	---	---	---	3/ 4.39
Charcoal	Cwt.	5.00	1.25	6.25	1	.06
Hauling, contract	Cwt.	12.53	.45	5.64	31	1.75
Total harvest						56.98
Total						109.22

1/ Estimated.

2/ About 10 percent of the value of the tobacco barns and strip rooms was charged to repair and depreciation.

3/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting Burley tobacco, type 31, area VIII-C1, Pennyroyal, Tennessee, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	42.17	12.93	1.48	---	---
Preharvest					
Plant bed 1/	29.43	9.03	1.03	---	---
Cover crop	1.90	1.20	1.00	---	---
Land preparation	31.50	27.60	8.20	---	---
Transplanting	46.70	4.80	1.60	---	---
Growing	89.10	19.70	.40	---	---
Cleaning up	5.40	6.50	.30	---	---
Total preharvest	204.03	68.83	12.53	---	---
Harvest					
Harvesting	80.00	19.80	2.50	---	---
Stripping	140.60	---	---	---	---
Hauling, contract	1.69	---	---	5.20	---
Marketing	16.92	---	---	11.56	12.09
Total harvest	239.21	19.80	2.50	16.76	12.09
Total	443.24	88.63	15.03	16.76	12.09

1/ About 69.8 square yards of plant bed required for one acre of tobacco.

ONE SUCKER TOBACCO, TYPE 35: RESOURCES USED IN PRODUCTION, AREA VIII-Cl, KENTUCKY, 1951

The data presented here are based on a survey in 1952 of 34 farms producing One Sucker tobacco in southwestern Kentucky. These farms are located in type-of-farming area VIII-Cl, a tobacco and general farming area in the Pennyroyal section of Kentucky.

The farms surveyed averaged 173 total acres. Acreage of One Sucker tobacco per farm in 1951 ranged from 1.0 to 7.6 acres. The average acreage per farm was 3.0 with 1 to 4 acres being the most common. The average yield of One Sucker was 1,506 pounds per acre. Burley tobacco and fire-cured were also produced on some of these farms.

Draft animals provided a considerable part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.55	4.40	6.82	25	1.71
Wood	---	---	---	2.25	14	.32
Coal	Bu.	12.2	.31	3.78	21	.79
Steaming, contract	---	---	---	10.70	21	2.25
Mixed fertilizer (6-8-6)	Cwt.	.70	2.50	1.75	91	1.59
Ammonium nitrate	Cwt.	.10	4.80	.48	53	.25
Tankage	Cwt.	.85	5.50	4.68	6	.28
Seed	Ounce	.5	1.70	.85	100	.85
Planks	Bd.ft.	95	.06	5.72	31	1/.54
Canvas	100 sq.yd.	1.0	10.80	10.80	100	2/3.48
Bluestone	Lb.	4.2	.17	.71	60	.43
Lime	Lb.	5.8	.02	.12	60	.07
Fermate (15%)	Lb.	6.8	.22	1.50	33	.50
Total						13.06

1/ Annual cost allocated on the basis of an average life of 3.3 years.
2/ Annual cost allocated on the basis of an average life of 3.1 years.

Materials used and contract work hired in producing and harvesting
One Sucker tobacco, type 35, area VIII-C1, Pennyroyal,
Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.54	13.06	7.05	100	7.05
Cover crop seed						
Crimson clover	Lb.	20	.26	5.20	29	1.51
Vetch and rye						
Vetch	Lb.	18	.23	4.14	19	.79
Rye	Bu.	1.1	2.75	3.02	19	.57
Manure	Ton	8	[1]2.00	16.00	89	14.24
Mixed fertilizer (6-8-6)	Cwt.	9.35	2.40	22.44	100	22.44
Ammonium nitrate	Cwt.	1.30	4.50	5.85	56	3.28
Phosphate fertilizer (20%)	Cwt.	5.80	1.50	8.70	12	1.04
Sulphate of potash	Cwt.	1.80	4.15	7.47	11	.82
Bone meal	Cwt.	3.00	4.30	12.90	8	1.03
Arsenate of lead	Lb.	14.0	.32	4.48	77	3.45
Paris green	Lb.	1.5	.61	.92	38	.35
Toxaphene	~~Lb.~~	~~12.9~~	~~.24~~	3.10	30	.93
Spraying, contract	---	---	---	5.65	28	1.58
Setter rental	---	---	---	2.00	16	.32
Total preharvest						59.40
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	[2]	51.28
Sticks, depreciation	---	---	---	---	[2]	3.03
Barn rental	---	---	---	20.00	3	.60
Coke	Ton	.4	22.60	9.04	50	4.52
Charcoal	~~Cwt.~~	~~2.95~~	~~3.00~~	8.85	7	.62
Wood and cobs	---	---	---	1.55	13	.20
Stripping, contract	Cwt.	15.06	3.05	45.93	7	3.22
Hauling, contract	Cwt.	15.06	.24	3.61	22	.79
Total harvest						64.26
Total						123.66

[1] Estimated.

[2] Repair and depreciation on tobacco barns and strip rooms is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting One Sucker tobacco, type 35, area VIII-C1, Pennyroyal, Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	56.58	8.95	4.60	2.36	---
Preharvest					
Plant bed 1/	30.76	4.87	2.51	1.29	---
Cover crop	1.84	.37	1.38	---	---
Land preparation	18.99	7.98	9.34	---	---
Transplanting	28.95	1.76	2.52	---	---
Growing	102.40	18.32	1.33	---	---
Cleaning up	2.31	.70	.35	---	---
Total preharvest	185.25	34.00	17.43	1.29	---
Harvest					
Harvesting	53.56	4.58	4.22	---	---
Curing	5.64	---	.03	.47	---
Stripping	70.03	.22	.13	.74	---
Stripping, contract	5.18	---	---	---	---
Hauling and marketing	11.73	---	---	7.57	9.63
Hauling, contract	.49	---	---	2.29	---
Total harvest	146.63	4.80	4.38	11.07	9.63
Total	331.88	38.80	21.81	12.36	9.63

1/ About 54.4 square yards of plant bed required for one acre of tobacco.

ONE SUCKER TOBACCO, TYPE 35: RESOURCES USED IN PRODUCTION, AREA VIII-C1, TENNESSEE, 1949

The data presented here are based on a survey made in 1950 of 10 farms producing One Sucker tobacco in northwestern Tennessee. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area in the Pennyroyal section of Tennessee, also referred to as the northern Highland Rim.

The farms surveyed averaged 147 acres. Acreage of One Sucker tobacco per farm in 1949 ranged from 0.7 to 6.7 acres. The average acreage per farm was 2.9, with 2 to 3 acres being the most common. The average yield of One Sucker was 1,560 pounds an acre. Fire-cured tobacco and Burley were also produced on some of these farms.

Draft animals provided an important part of the power used for operations on these farms.

Materials used and contract work hired per 100 square yards of plant bed, 1949

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Wood	---	---	---	1.05	17	0.18
Coal for steaming	Bu.	9.4	0.36	3.38	65	2.20
Steaming, contract	---	---	---	10.50	65	6.82
Fertilizer (3-9-6)	Cwt.	.90	2.10	1.89	86	1.63
Nitrate fertilizer	Cwt.	.50	4.05	2.02	50	1.01
Phosphate fertilizer	Cwt.	1.00	1.40	1.40	6	.08
Seed	Ounce	.5	1.50	.75	100	.75
Planks 1/	---	---	---	6.25	41	2/ .38
Cotton cloth	100 sq.yd.	1.0	10.10	10.10	100	3/2.73
Fermate	Lb.	3.0	.80	2.40	51	1.22
Arsenate of lead	Lb.	.9	.30	.27	32	.09
Bluestone	Lb.	3.0	.15	.45	25	.11
Lime	Lb.	8.5	.02	.17	25	.04
Total						17.24

1/ Quantity not available.
2/ Annual cost allocated on the basis of an average life of 6.7 years.
3/ Annual cost allocated on the basis of an average life of 3.7 years.

Materials used and contract work hired in producing and harvesting One Sucker tobacco, type 35, area VIII-Cl, Pennyroyal, Tennessee, 1949

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq.yd.	0.60	17.24	10.34	100	10.34
Cover crop seed						
Clover and oats						
Crimson clover	Lb.	14	.22	3.08	31	.95
Oats	Bu.	1.5	.90	1.35	31	.42
Rye	Bu.	1.4	2.00	2.80	19	.53
Manure	Ton	7	1/2.00	14.00	64	8.96
Fertilizer (3-9-6) 2/	Cwt.	8.55	2.15	18.38	100	18.38
Nitrate fertilizer	Cwt.	1.00	4.15	4.15	60	2.49
Phosphate fertilizer	Cwt.	6.30	1.55	9.76	38	3.71
Arsenate of lead	Lb.	8.8	.30	2.64	60	1.58
Lime	Cwt.	.20	1.50	.30	39	.12
Paris green	Lb.	1.0	.60	.60	64	.38
Parathion	Lb.	28.0	.35	9.80	23	2.25
Cryolite	Lb.	11.6	.20	2.32	23	.53
Total preharvest						50.64
Harvest						
Barns and strip rooms, repair & depreciation	---	---	---	---	---	3/46.16
Sticks, depreciation	---	---	---	---	---	4/ 2.68
Fuel	---	---	---	12.30	23	2.83
Hauling, contract	Cwt.	15.60	.17	2.65	7	.19
Total harvest						51.86
Total						102.50

1/ Estimated.

2/ 4-8-8 and 6-12-12 also used.

3/ About 10 percent of the value of the tobacco barns and strip rooms was charged to repair and depreciation.

4/ Tobacco sticks depreciate about 12 percent a year.

Man labor and power used per acre in producing and harvesting One Sucker tobacco, type 35, area VIII-C1, Pennyroyal, Tennessee, 1949

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	50.00	15.20	1.50	---	---
Preharvest					
Plant bed 1/	30.25	9.20	.91	---	---
Cover crop	1.10	.10	.70	---	---
Land preparation	19.70	14.40	5.40	---	---
Transplanting	24.90	1.50	.90	---	---
Growing	114.90	20.10	.10	---	---
Cleaning up	3.80	2.90	---	---	---
Total preharvest	194.65	48.20	8.01	---	---
Harvest					
Harvesting	63.30	2.10	4.60	---	---
Curing	1.10	---	---	---	---
Stripping	131.10	---	---	---	---
Hauling, contract	.10	---	---	0.61	---
Marketing	8.60	---	---	7.90	7.50
Total harvest	204.20	2.10	4.60	8.51	7.50
Total	398.85	50.30	12.61	8.51	7.50

1/ About 60.5 square yards of plant bed required for one acre of tobacco.

ONE SUCKER TOBACCO, TYPE 35: RESOURCES USED IN PRODUCTION, AREA VIII-C1, KENTUCKY, 1951

The data presented here are based on a survey in 1952 of 15 farms producing One Sucker tobacco in southwestern Kentucky, west of the Tennessee River. These farms are located in type-of-farming area VIII-C1, a tobacco and general farming area in the Purchase section of Kentucky.

The farms surveyed averaged 90 total acres. Acreage of One Sucker tobacco per farm in 1951 ranged from 1.1 to 3.3 acres. The average acreage per farm was 1.7 with 1 to 2 acres being the most common. The average yield of One Sucker was 1,214 pounds per acre. Fire-cured tobacco and Burley were also produced on some of these farms.

Draft animals provided an important part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Mixed fertilizer (4-12-8)	Cwt.	1.00	2.30	2.30	100	2.30
Ammonium nitrate	Cwt.	.20	4.50	.90	5	.04
Seed	Ounce	.9	1.50	1.35	100	1.35
Planks	Bd.ft.	96	.07	6.70	18	1/ .30
Canvas	100 sq.yd.	1.0	10.21	10.21	100	2/ 4.25
Bluestone	Lb.	3.0	.20	.60	15	.09
Lime	Lb.	4.0	.03	.12	15	.02
Total						8.35

1/ Annual cost allocated on the basis of an average life of 4.0 years.
2/ Annual cost allocated on the basis of an average life of 2.4 years.

Materials used and contract work hired in producing and harvesting One Sucker tobacco, type 35, area VIII-C1, Purchase, Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	0.36	8.35	3.01	100	3.01
Cover crop seed						
Crimson clover	Lb.	15	.26	3.90	7	.27
Vetch	Lb.	24	.23	5.52	10	.55
Vetch and rye						
Vetch	Lb.	20	.23	4.60	23	1.06
Rye	Bu.	1.0	2.75	2.75	23	.63
Manure	Ton	7	[1] 2.00	14.00	91	12.74
Mixed fertilizer (4-12-8)	Cwt.	5.90	2.30	13.57	100	13.57
Ammonium nitrate	Cwt.	1.55	4.15	6.43	57	3.66
Rock phosphate	Cwt.	5.00	1.25	6.25	13	.81
Sulphate of potash	Cwt.	1.95	3.25	6.34	12	.76
Anhydrous ammonia	Lb.	50.0	.15	7.50	13	.98
Arsenate of lead	Lb.	12.2	.31	3.78	73	2.76
Paris green	Lb.	1.6	.66	1.06	23	.24
Toxaphene	Lb.	12.7	.23	2.92	20	.58
Total preharvest						41.62
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	[2]	26.35
Sticks, depreciation	---	---	---	---	[2]	3.53
Barn rental	---	---	---	9.75	10	.98
Hauling, contract	Cwt.	12.14	.27	3.28	36	1.18
Total harvest						32.04
Total						73.66

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[1] Estimated.

[2] Repair and depreciation on tobacco barns and strip rooms is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting
One Sucker tobacco, type 35, area VIII-C1, Purchase,
Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per -					
100 square yards	67.39	14.07	3.60	---	---
Preharvest					
Plant bed 1/	24.36	5.09	1.30	---	---
Cover crop	1.98	1.69	.60	---	---
Land preparation	23.04	20.65	6.83	---	---
Transplanting	23.31	.62	---	---	---
Growing	102.29	20.27	.75	---	---
Cleaning up	2.73	2.85	.12	---	---
Total preharvest	177.71	51.17	9.60	---	---
Harvest					
Harvesting	38.50	14.92	.83	---	---
Curing	2.15	---	---	---	---
Stripping	66.81	---	.21	---	---
Hauling and marketing	13.69	.54	---	5.88	16.27
Hauling, contract	1.31	---	---	4.57	---
Total harvest	122.46	15.46	1.04	10.45	16.27
Total	300.17	66.63	10.64	10.45	16.27

1/ About 36.2 square yards of plant bed required for one acre of tobacco.

GREEN RIVER TOBACCO, TYPE 36: RESOURCES USED IN PRODUCTION, AREA V-C2, 1951

The data presented here are based on a survey in 1952 of 32 farms producing Green River tobacco in western Kentucky. These farms are located in type-of-farming area V-C2. Production of hogs and soft winter wheat are important enterprises on these farms in the Wabash and Lower Ohio River Valleys.

The farms surveyed averaged 147 total acres. Acreage of Green River tobacco per farm in 1951 ranged from 0.8 to 4.0 acres. The average acreage per farm was 2.1 with 1 to 3 acres being the most common. The average yield of Green River was 1,359 pounds per acre. Burley tobacco was also produced on some of these farms.

Draft animals provided an important part of the power used on these farms. Tractors used on these farms averaged about 15 drawbar-horsepower.

Materials used and contract work hired per 100 square yards of plant bed, 1951

Item	Unit	Quantity	Price per unit	Cost	Yardage covered	Average cost
		Number	Dollars	Dollars	Percent	Dollars
Cyanamide	Cwt.	1.35	4.55	6.14	26	1.60
Wood	---	---	---	5.50	15	.82
Coal	Bu.	11.5	.21	2.42	22	.53
Steaming, contract	---	---	---	9.80	22	2.16
Mixed fertilizer(6-8-6)	Cwt.	.85	2.60	2.21	93	2.06
Liquid fertilizer(7-14-7)	Qt.	1.2	1.60	1.92	12	.23
Seed	Ounce	.7	1.55	1.08	100	1.08
Planks	Bd.ft.	170	.05	8.50	21	1/ .48
Canvas	100 sq.yd.	1.0	10.40	10.40	100	2/ 4.00
Bluestone	Lb.	3.9	.29	1.13	50	.57
Lime	Lb.	5.4	.03	.16	50	.08
Total						13.61

1/ Annual cost allocated on the basis of an average life of 3.7 years.
2/ Annual cost allocated on the basis of an average life of 2.6 years.

Materials used and contract work hired in producing and harvesting Green River tobacco, type 36, area V-C2, western Kentucky, 1951

Item	Unit	Quantity per acre	Price per unit	Cost per acre	Acreage covered	Average cost per acre
		Number	Dollars	Dollars	Percent	Dollars
Preharvest						
Plant bed	100 sq. yd.	.46	13.61	6.26	100	6.26
Cover crop seed						
Vetch	Lb.	26	.23	5.98	12	.72
Vetch and wheat						
Vetch	Lb.	21	.23	4.83	19	.92
Wheat	Bu.	1.0	2.50	2.50	19	.48
Rye	Bu.	1.6	2.50	4.00	17	.68
Manure	Ton	12	1/ 2.00	24.00	95	22.80
Mixed fertilizer (6-8-6)	Cwt.	5.85	2.55	14.92	87	12.98
Ammonium nitrate	Cwt.	1.75	5.00	8.75	8	.70
Phosphate fertilizer (20%)	Cwt.	7.15	1.60	11.44	15	1.72
Sulphate of potash	Cwt.	2.60	3.90	10.14	5	.51
Arsenate of lead	Lb.	7.1	.37	2.63	65	1.71
Paris green	Lb.	1.4	.63	.88	60	.53
Toxaphene	Gal.	.43	5.15	2.21	36	.80
Tillage, contract	---	---	---	3.00	6	.18
Setter rental	---	---	---	2.00	15	.30
Total preharvest						51.29
Harvest						
Barns and strip rooms, repair and depr.	---	---	---	---	2/	49.31
Sticks, depreciation	---	---	---	---	2/	3.08
Barn rental	---	---	---	10.00	3	.30
Coke	Bu.	7.2	.50	3.60	15	.54
Stripping, contract	Cwt.	13.59	3.30	44.85	2	.90
Hauling, contract	Cwt.	13.59	.29	3.94	34	1.34
Total harvest						55.47
Total						106.76

1/ Estimated.

2/ Repair and depreciation on tobacco barns and strip rooms is about 10 percent and tobacco sticks depreciate at about 12 percent per year.

Man labor and power used per acre in producing and harvesting Green River tobacco, type 36, area V-C2, western Kentucky, 1951

Operation	Man labor	Mule work	Tractor work	Truck work	Auto work
	Hours	Hours	Hours	Miles	Miles
Labor and power					
Plant bed per - 100 square yards	47.17	6.23	3.13	5.31	---
Preharvest					
Plant bed 1/	21.71	2.87	1.44	2.44	---
Cover crop	1.35	.21	.93	---	---
Land preparation	23.83	18.13	8.79	---	---
Transplanting	24.71	2.12	1.87	---	---
Growing	119.60	22.64	.49	---	---
Cleaning up	2.70	1.86	.35	---	---
Total preharvest	193.90	47.83	13.87	2.44	---
Harvest					
Harvesting	48.69	7.00	3.46	---	---
Curing	3.74	---	---	.59	---
Stripping	67.80	---	.22	1.41	1.53
Stripping, contract	1.42	---	---	---	---
Hauling and marketing	13.25	---	---	11.25	18.22
Hauling, contract	1.24	---	---	6.74	---
Total harvest	136.14	7.00	3.68	19.99	19.75
Total	330.04	54.83	17.55	22.43	19.75

1/ About 46.0 square yards of plant bed required for one acre of tobacco.

State Groupings by Type-of-Farming Regions
for Release of Crop Production Practice Data

Section 1

Northeast

Maine
New Hampshire
Vermont
Massachusetts
Rhode Island
Connecticut
New York
New Jersey
Pennsylvania
Delaware
Maryland

Section 2

Lake States

Michigan
Wisconsin
Minnesota

Corn Belt

Ohio
Indiana
Illinois
Iowa
Missouri

Section 3

Appalachian

Virginia
West Virginia
North Carolina
Kentucky
Tennessee

Southeast

South Carolina
Georgia
Florida
Alabama

Mississippi Delta

Mississippi
Arkansas
Louisiana

Section 4

Southern Plains

Oklahoma
Texas

Northern Plains

North Dakota
South Dakota
Nebraska
Kansas

Section 5

Mountain

Montana
Idaho
Wyoming
Colorado
New Mexico
Arizona
Utah
Nevada

Pacific

Washington
Oregon
California

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 1

Northeast

Crop	Type-of-farming area	Crop year	Crop	Type-of-farming area	Crop year
Alfalfa:	IV-F4	1949	Corn, sweet:	I-Cl	
	IV-F6			(N.J.)	1949
	(Pa.)	1949			
			Cucumbers:	I-Cl	
Asparagus:				(Md.)	1949
Fresh market....	I-Cl				
	(N.J.)	1949			
Processing......	I-Cl		Oats:	IV-F3	1949
	(N.J.)	1949		IV-F4	1949
				IV-F6	
Barley:	I-Cl	1949		(Pa.)	1949
	IV-F3	1949			
	IV-F6		Peas:		
	(Pa.)	1949	Processing.....	I-Cl	1949
Beans, lima:			Potatoes:	IV-F6	
Fresh market....	I-Cl			(Pa.)	1949
	(N.J.)	1949			
Processing......	I-Cl		Soybeans:	I-Cl	1949
	(N.J.)	1949		IV-F3	1949
Cantaloupe:	I-Cl		Sweetpotatoes:	I-Cl	1949
	(Md.)	1949			
			Tobacco:		
Clover hay:	IV-F4	1949	Type 32........	VIII-D1	1949
	IV-F6		Type 41........	IV-F3	
	(Pa.)	1949		(Pa.)	1949
Corn, grain:	I-Cl	1949	Tomatoes:		
	IV-F3	1949	Fresh market...	I-Cl	
	IV-F4	1949		(N.J.)	1949
	IV-F6		Processing.....	I-Cl	
	(Pa.)	1949		(Md.)	1949
Corn, silage:	I-Cl				
	(N.J.)	1949	Wheat, winter:	I-Cl	1949
	IV-F4	1949		IV-F3	1949
	IV-F6			IV-F4	1949
	(Pa.)	1949		IV-F6	1949

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 2

Lake States and Corn Belt

Crop	Type-of-farming area	Crop year	Crop	Type-of-farming area	Crop year
Alfalfa:	I-B5	1950	Corn, silage:	I-B5	1950
	IV-D1	1949		IV-A2	1950
	IV-F1	1950		IV-B2	1950
	IV-F4	1949		IV-D1	1949
	VI-H3			IV-F1	1950
	(Ohio)	1949		IV-F4	1949
				V-D1	1949
Barley:	III-E2	1950		V-F4	1949
	IV-A2	1950		V-H2	1950
	IV-B2	1950		VI-H3	
	IV-D1	1949		(Ohio)	1949
	IV-F1	1950			
	V-A1	1949	Corn, sweet:	–	
	V-F4	1949	(fresh market)	IV-A2	1950
	–				
Beans, dry:	IV-D1	1949	Corn, sweet:	–	
			(processing)	IV-A2	1950
				IV-B2	1950
Clover, hay:	I-B5	1950			
	IV-D1	1949			
	IV-F1	1950	Flax:	IV-A2	1950
	IV-F4	1949		IV-B1	1950
	VI-H3			IV-B2	1950
	(Ohio)	1949		V-A1	1949
				V-F4	1949
Corn, grain:	I-B5	1950			
	IV-A2	1950	Grain sorghum:	V-A1	1949
	IV-B1	1950		V-G1	1949
	IV-B2	1950			
	IV-D1	1949	Oats:	I-B5	1950
	IV-F1	1950		III-E2	1950
	IV-F4	1949		IV-A2	1950
	V-A1	1949		IV-B1	1950
	V-A1			IV-B2	1950
	(Nebr.)	1948		IV-D1	1949
	V-B1	1947		IV-F1	1950
	V-B2			IV-F4	1949
	(Ill.)	1947		V-A1	1949
	V-D1	1949		V-B1	1947
	V-F4	1949		V-B2	
	V-G1	1949		(Ill.)	1947
	V-H1	1950		V-D1	1949
	V-H2	1950		V-F4	1949
	VI-G2	1950		V-G1	1949
	VI-G3	1950		V-H1	1950
	VI-H3			V-H2	1950
	(Ohio)	1949		VI-G2	1950
				VI-G3	1950

-Continued

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 2 - Continued

Lake States and Corn Belt

Crop	Type-of farming area	Crop year	Crop	Type-of-farming area	Crop year
Peas: (processing)	IV-A2	1950	Wheat, spring:	IV-A2	1950
	IV-F1	1950		IV-B1	1950
				IV-B2	1950
Red clover seed:	I-B5	1950		V-F4	1949
Rye:	III-E2	1950			
	IV-B1	1950	Wheat, winter:	I-A6 (Mo.)	1950
Soybeans:	IV-B1	1950		I-B5	1950
	IV-B2	1950		IV-B1	1950
	IV-D1	1949		IV-B2	1950
	V-A1	1949		IV-D1	1949
	V-B1	1947		IV-F4	1949
	V-B2 (Ill.)	1947		V-A1 (Nebr.)	1949
	V-D1	1949		V-D1	1949
	V-F4	1949		V-G1	1949
	V-G1	1949		V-H1	1950
	V-H1	1950		V-H2	1950
	VI-G2	1950		VI-G2	1950
	VI-G3	1950		VI-G3	1950
	VI-H3 (Ohio)	1949		VI-H3 (Ohio)	1949

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 4

Great Plains

Crop	Type-of-farming area	Crop year	Crop	Type-of-farming area	Crop year
Alfalfa:					
Irrigated..........	IX-F2	1951	Corn silage:		
Nonirrigated.......	VI-E1	1949	Nonirrigated.......	III-E3	1949
				V-F4	1949
Barley:			Cotton:		
Irrigated..........	IX-F2	1951	Irrigated..........	VII-A1	1951
Nonirrigated.......	III-A3	1947	Nonirrigated.......	VII-A1	1951
	III-C2	1950		VII-A2	1951
	III-E2	1950			
	III-E3	1949	Flax:		
	V-A1	1949	Nonirrigated.......	II-B1	1950
	V-F4	1949		III-A2	1950
	VI-E1	1949		III-A3	1947
	VII-A2	1949		III-C2	1950
				III-E3	1949
Beans, dry:				V-A1	1949
Irrigated..........	IX-F2	1951		V-F4	1949
			Grain sorghum:		
Broomcorn:			Nonirrigated.......	II-B4	1949
Nonirrigated.......	VII-G2	1949		III-D1	1948
				V-A1	1949
Corn, grain:				V-G1	1949
Irrigated..........	IX-F2	1951		VI-E1	1949
Nonirrigated.......	II-B4	1949		VI-E2	1949
	III-E3	1949		VII-A2	1949
	V-A1	1949		VII-G2	1949
	V-A1 (Nebr.)	1948	Hairy vetch seed:		
	V-F2	1950	Nonirrigated.......	VI-E1	1949
	V-F4	1949		VII-A2	1949
	V-G1	1949			
	VI-E1	1949	Hubam clover seed:		
	VI-E2	1949	Nonirrigated.......	VI-E1	1949
	VII-A2	1949		VII-A2	1949
	VII-G2	1949	Madrid clover seed:		
			Nonirrigated.......	VII-A2	1949

-Continued

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 4 - Continued

Great Plains

Crop	Type-of-farming area	Crop year	Crop	Type-of-farming area	Crop year
Oats:			Wheat, spring:		
Irrigated..........	IX-F2	1951	Nonirrigated		
Nonirrigated.......	II-B4	1950	Cont. cropping...	II-B1	1950
	III-A3	1950		III-A2	1950
	III-C2	1950		III-A3	1947
	III-E2	1950		III-C2	1950
	III-E3	1949		III-E3	1949
	V-A1	1949		V-F1	1950
	V-F4	1949		V-F4	1949
	V-G1	1949			
	VI-E1	1949	Summer fallow....	II-B1	1950
	VI-E2	1950		III-A2	1950
	VII-A2	1949		III-A3	1947
	VII-G2	1949		III-C2	1950
Peanuts:			After corn.......	II-B1	1950
Nonirrigated.......	VI-E1	1949		III-A2	1950
	VII-A2	1949		III-C2	1950
	VII-G2	1949			
			Wheat, winter:		
Rye:			Nonirrigated		
Nonirrigated.......	III-A3	1950	Cont. cropping...	II-B4	1950
	III-C2	1950		III-A4	1952
	III-E2	1950		III-D1	1948
	III-E3	1949		III-E4	1950
Soybeans:				V-A1 (Nebr.)	1949
Nonirrigated.......	V-A1	1949		V-F2	1950
	V-F4	1949		V-G1	1949
	V-G1	1949		VI-E1	1949
	VI-E2	1949		VI-E2	1950
				VII-A2	1949
				VII-G2	1949
Sugar beets:					
Irrigated..........	IX-F2	1951	Summer fallow....	III-A4	1952
				III-D1	1948
				V-F2	1950

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 5

Mountain and Pacific States

Crop	Type-of-farming area	Crop year	Crop	Type-of-farming area	Crop year
Alfalfa:			Barley: (Contd.)		
Irrigated	II-A3	1950	Nonirrigated ..	I-A3	1950
	II-B2	1950		II-B2	1950
	III-E1	1952		III-B1	1948
	VI-D1	1950		III-C2	1950
	VI-D3	1950		III-C3	
	VI-D4	1950		(Colo.)	1950
	VI-D7			IV-E1	1950
	(Oreg.)	1950			
	VI-D7		Beans, dry:		
	(Wyo.)	1952	Irrigated......	I-A1	1949
	IX-F1	1950		I-A3	1949
	IX-F2	1951		I-A5	1950
				III-B1	1949
Alfalfa seed:				VI-D4	1950
Irrigated	VI-D7			VI-D5	
	(Wyo.)	1952		(Colo.)	1950
				VI-D5	
Austrian winter peas:				(N.Mex.)	1950
Nonirrigated	IV-E1	1950		VI-D7	
				(N.Mex.)	1950
Barley:				VI-D7	
Irrigated	I-A1	1949		(Wyo.)	1952
	I-A5	1952		IX-E1	1949
	II-A3	1950		IX-F1	1949
	II-B2	1950		IX-F1	1951
	III-C3			IX-F2	1951
	(Colo.)	1950			
	III-F1	1952			
	VI-D1	1950			
	VI-D3	1950	Nonirrigated ..	II-B2	1950
	VI-D4	1950		II-C3	
	VI-D7			(Colo.)	1950
	(Oreg.)	1950		II-D1	
	VI-D7			(Ariz.)	1950
	(Wyo.)	1952		IX-G1	
	IX-F1	1950		(N.Mex.)	1950
	IX-F2	1951			

Continued

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 5 - Continued

Mountain and Pacific States

Crop	Type-of-farming area	Crop year	Crop	Type-of-farming area	Crop year
Broomcorn:			Oats:		
Nonirrigated	II-B2	1950	Irrigated	I-A1	1949
				I-A5	1952
Corn, grain:				II-A3	1950
Irrigated	I-A1	1949		III-C3	
	I-A5	1952		(Colo.)	1950
	II-B2	1950		VI-D1	1950
	VI-D4	1950		VI-D3	1950
	IX-F2	1951		VI-D4	1950
				VI-D7	
Nonirrigated	II-B2	1950		(Oreg.)	1950
				VI-D7	
Corn, silage:				(Wyo.)	1952
Irrigated	I-A5	1952		IX-F1	1950
	II-A3	1949		IX-F2	1951
	II-B2	1950	Nonirrigated ..	III-C2	1950
	VI-D1	1949		IV-E1	1950
	VI-D7		Onions:		
	(Wyo.)	1952	Irrigated	I-A5	1952
	IX-F1	1951		VI-B1	1950
				VI-D4	1950
Cotton:					
Irrigated	VII-K1	1949	Peas, dry field:		
			Nonirrigated	III-B1	1948
Flax:					
Nonirrigated	III-C2	1950	Potatoes:		
			Irrigated	I-A1	1949
Grain sorghum:				I-A5	1952
Irrigated	VI-D4	1950		VI-D1	1950
				VI-D3	1950
Nonirrigated	II-B2	1950		VI-D4	1950
				VI-D7	
				(Oreg.)	1950
Hops:					
Irrigated	I-A1	1949	Rice:		
			Irrigated	I-A3	1949
Ladino seed:					
Irrigated	VI-D7		Rye:		
	(Oreg.)	1950	Nonirrigated ..	III-C2	1950

Continued

Crops and Type-of-Farming Areas for which Cropping-Practice Data are Available in Section 5 - Continued

Mountain and Pacific States

Crop	Type-of-farming area	Crop year	Crop	Type-of-farming area	Crop year
Sugar beets:			Wheat: (Contd.)		
Irrigated	I-A1	1949	Nonirrigated		
	II-B2	1950	Cont. cropping	I-A3	1950
	VI-D1	1951		II-B2	1950
	VI-D4	1950		III-A4	1952
	IX-F1	1949		III-B1	1948
	IX-F2	1951		III-C2	1950
				III-C3	
Vetch seed, common:				(Colo.)	1950
Nonirrigated	IV-E1	1950		IV-E1	1950
Vetch seed, hairy:			Summer fallow	II-A1	
Nonirrigated	IV-E1	1950		(Utah)	1951
				II-B2	1950
Wheat:				II-C3	
Irrigated	I-A1	1949		(Colo.)	1951
	I-A5	1952		II-D1	
	II-A3	1950		(Utah)	1951
	II-B2	1950		III-A1	
	III-C3			(Oreg.)	1948
	(Colo.)	1950		III-A1	
	III-E1	1952		(Wash.	
	VI-D1	1950		part)	1948
	VI-D1	1951		III-A1	
	VI-D3	1950		(Wash.	
	VI-D4	1950		part)	1948
	VI-D5			III-A4	1952
	(Colo.)	1951		III-B1	1948
	VI-D7			III-C2	1950
	(Oreg.)	1950		III-C3	
	VI-D7			(Colo.)	1950
	(Wyo.)	1952		III-C5	1951
	IX-F1	1950		III-E1	1948
				III-E1	1949
				III-E1	1952
				III-F1	1952
				VI-D1	1950
			After corn ..	III-C2	1950
			After sweet		
			clover	III-B1	1948

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